A NEWSPAPER FOR THE ARCHITECT & CONSTRUCTOR

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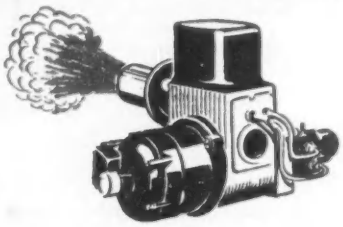

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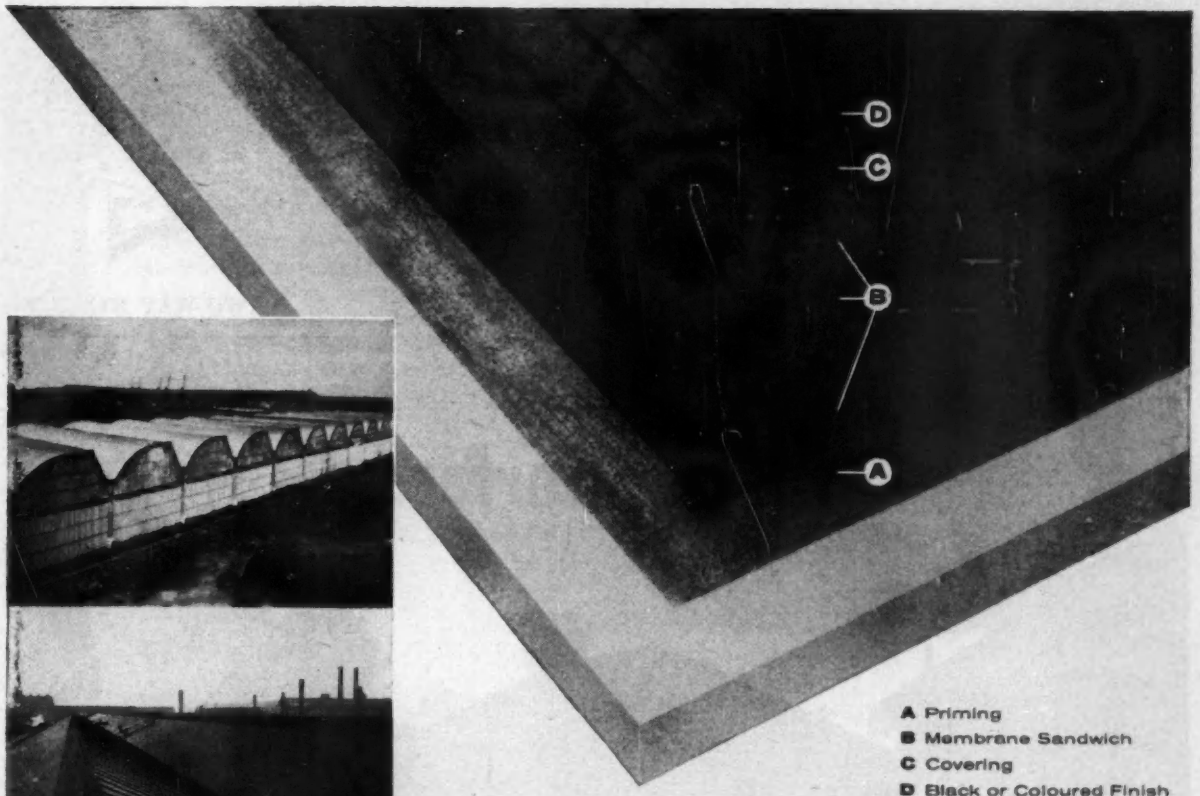

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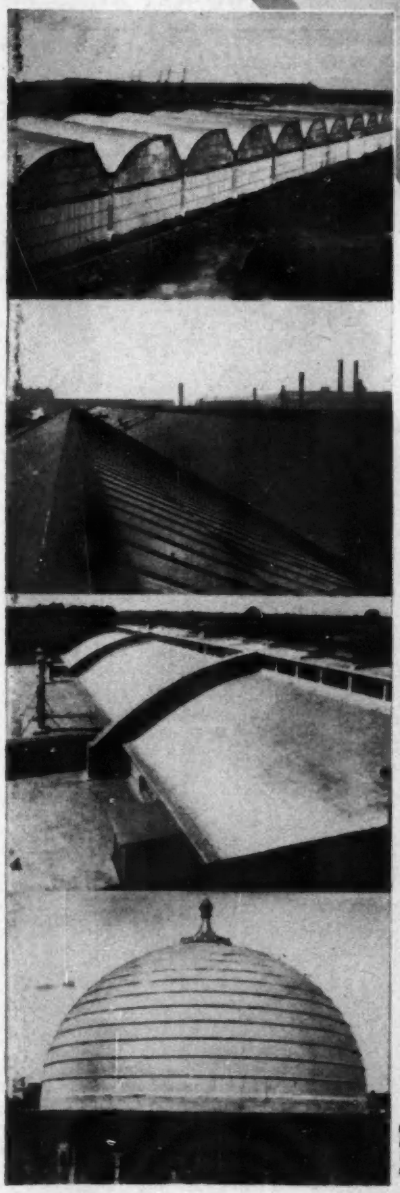

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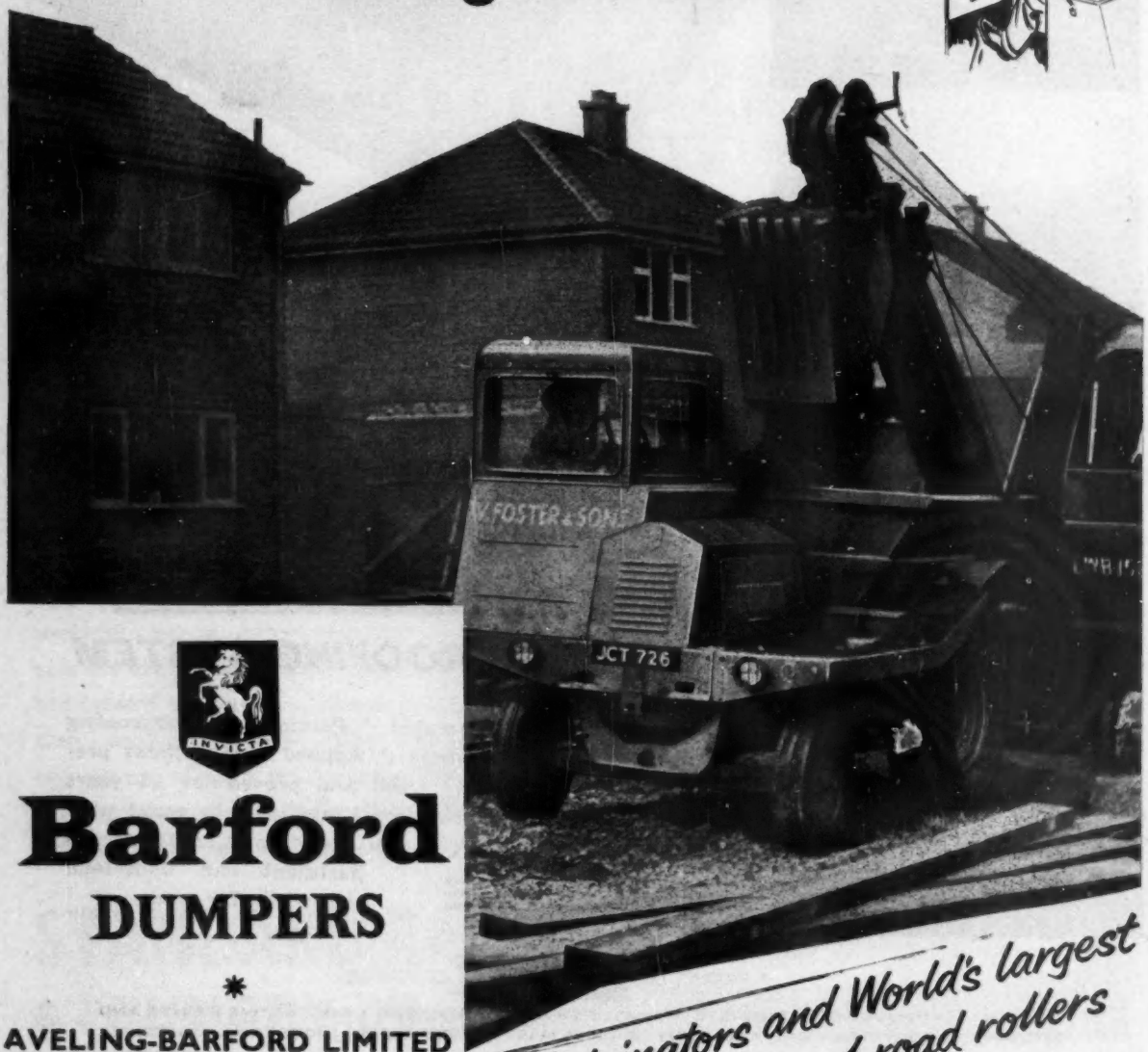

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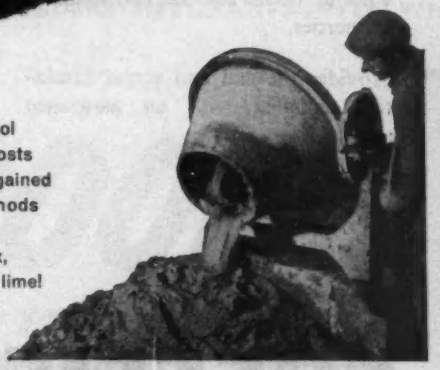

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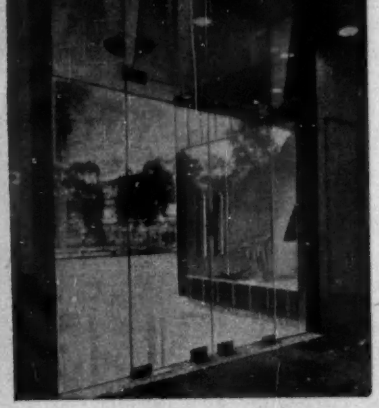


1

1 Shopfront for the Maryon Fashion Group Ltd., Ealing. Designed and installed by D. Drake & Son Ltd.

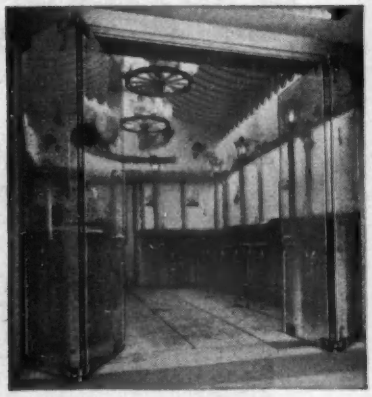
2 Office block entrance, Crosswall Street, London, E.C.3. Architects: Knapton & Deane, F.R.I.B.A., A.M.T.P.I. Shopfitters F. Sage & Co. Ltd.

3 Office entrance for Lloyds Permanent Building Society, Manchester. Designed and installed by Garmack & Co. Ltd.

2

3

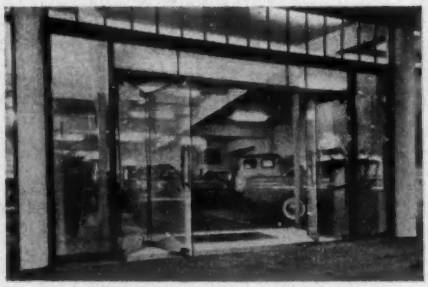
4



5

4 Shopfront at Weston-super-Mare. Architects: Fry, Paterson & Jones, F.R.I.B.A. Shopfitters: Parnall & Sons Ltd.

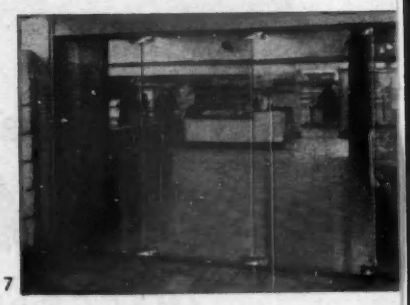
5 Chicken Inns (London) Ltd., Leicester Square, W.C.2. Shopfitters: Garmack & Co. Ltd.



6

6 Motorcar showroom entrance for Harvey Hudson Ltd., South Woodford, E.18. Architect: V. Fletcher Russell, F.R.I.B.A. Shopfitters: Stewart Fraser Ltd.

7 New store for Messrs. Williams Bros. Direct Supply Stores Ltd., Hatfield. Shopfitting by O. Peterson Ltd.



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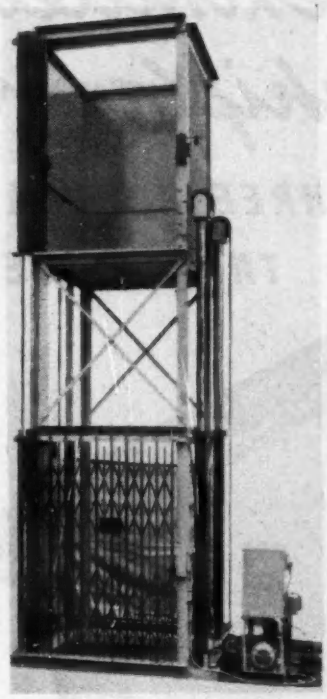

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★ Including Shaft, Guides, Gates, Interlocks, Electrical Pumping Unit.

★ Platform Enclosure 6′ 6″ high.

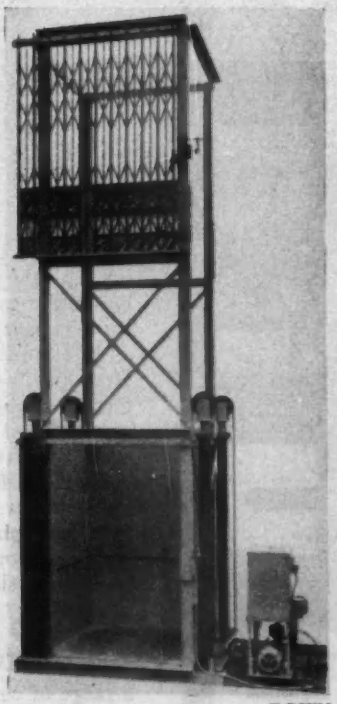
A Fully Hydraulic, 4 Rams.
B Frame 4 x 4, 5 x 5, 6 x 6 inches.
C Platform 4 x 4, 5 x 6, 6 x 8 feet.
D Cage 6′ 6″ high, angle iron, rigid to platform, 3 x 3, 4 x 4, 5 x 5 ins.
E Brass rubbing strips.
F Renold's chain and sprockets, 10:1 safety factor.
G To serve one, two or three floors
H Capacities, 1 to 5 tons.
I Speed, 30 feet per minute.
J Varley or Stein Atkinson pump.
K Motor, 5 h.p. to raise 1 ton 12 feet in 24 seconds as picture.
L Variations of above according to requirement.

NO Excavating except for a hole in upper floor.

NO Base foundations or excavations unless platform is required to be flush with floor, then only eight inches depth is necessary

NO Costly electrical installation, the gate locks and contacts are included and fitted to the structure.

ILLUSTRATED LITERATURE AVAILABLE ON REQUEST



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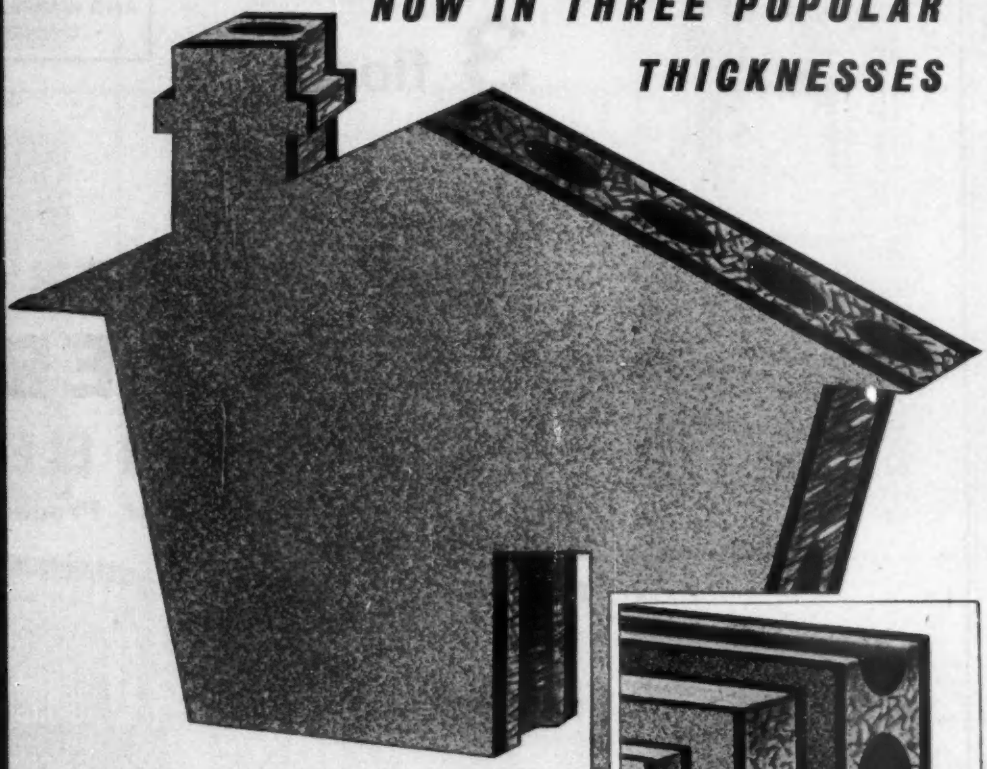

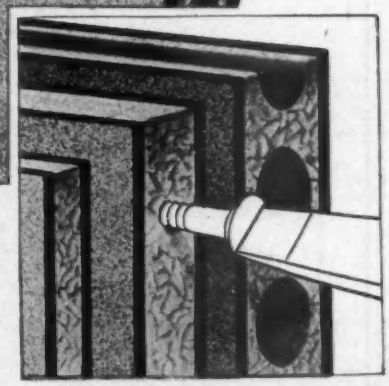

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Eric de Maré

CARTER

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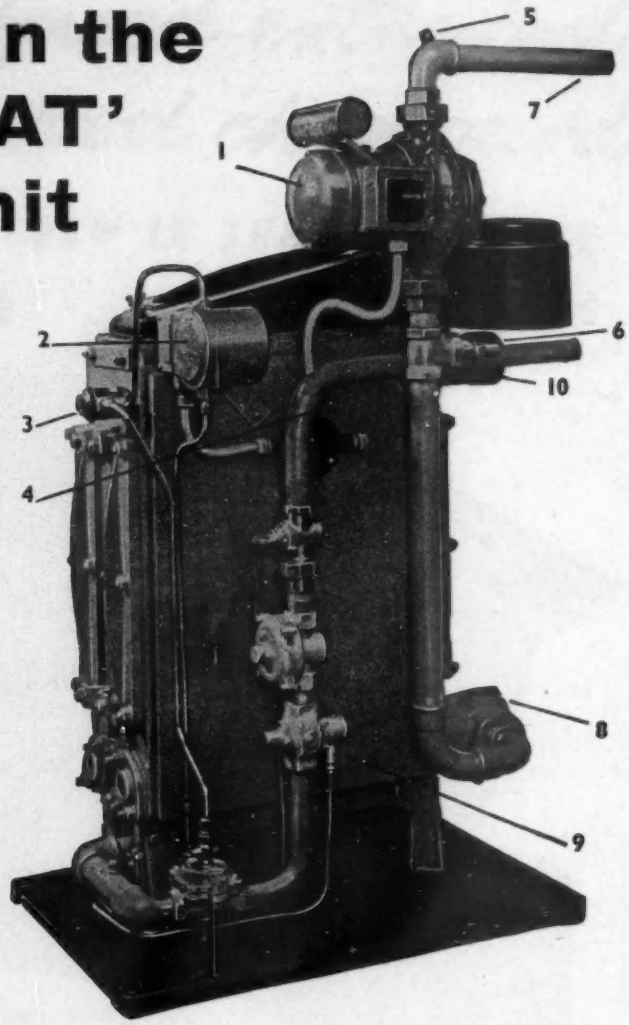
Carter Tiles Limited Poole Dorset Poole 125

What's what in the new 'DIPLOMAT' Small Bore Unit



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2. HORSTMANN clock controller incorporating 5 amp. switch.
3. Thermostat.
4. Unit pre-wired in flexible conduit to junction box.
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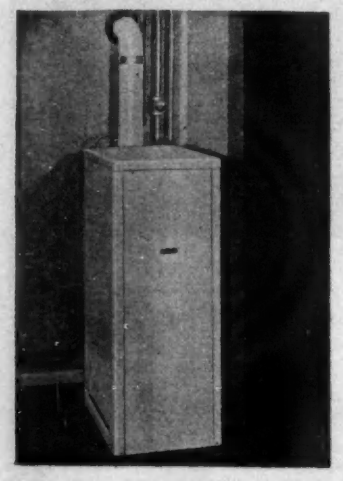

LEFT: *The totally enclosed 'Diplomat' Small Bore Unit in a kitchen setting.*

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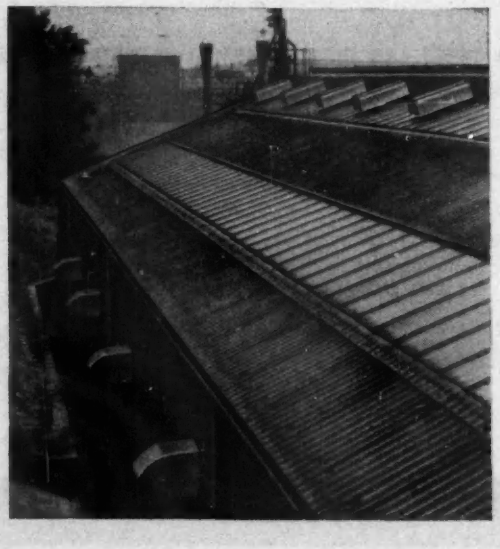

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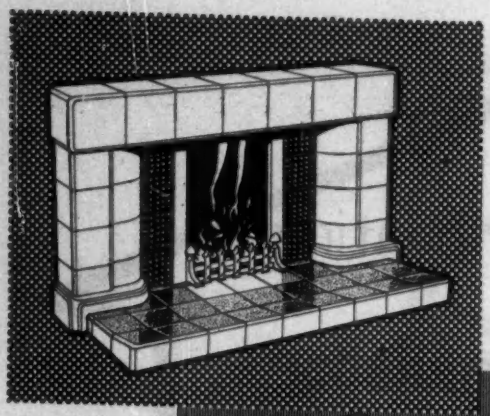

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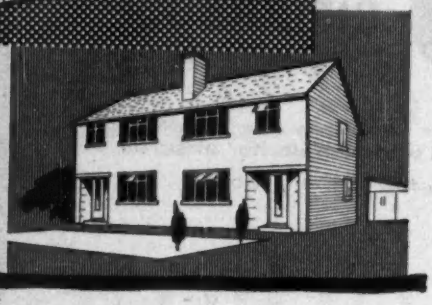

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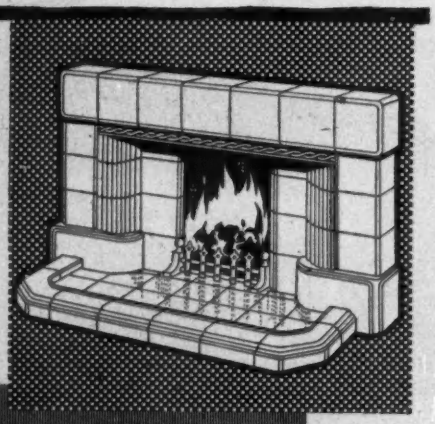

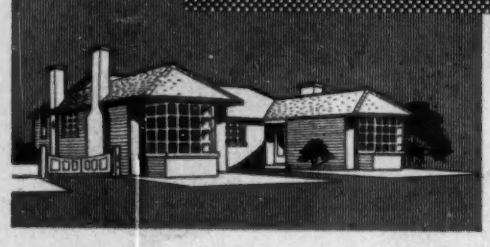

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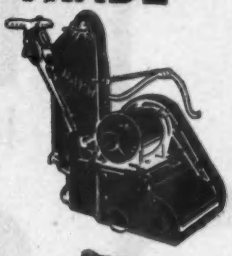

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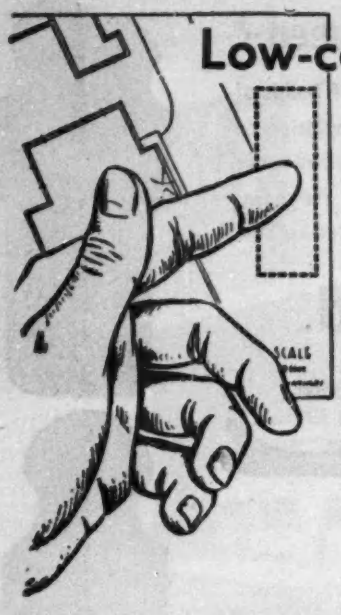

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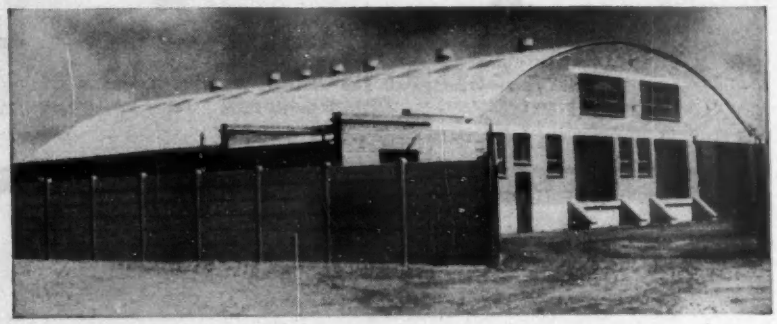

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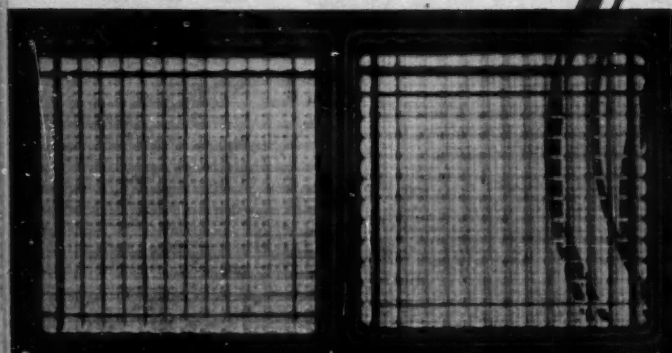
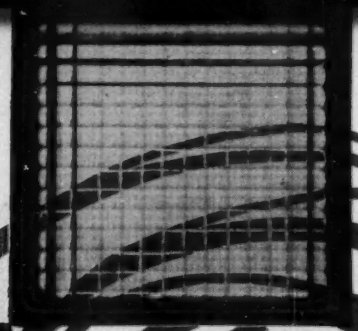
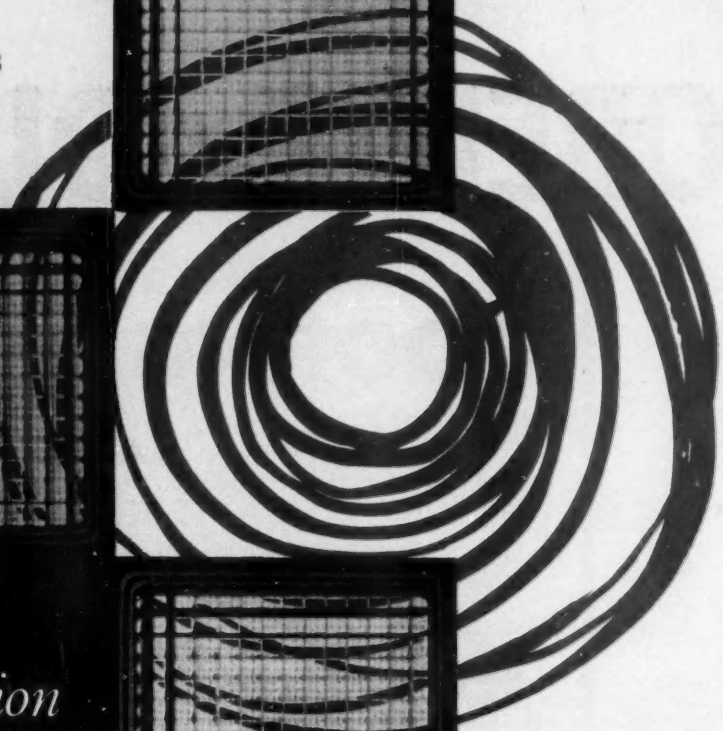
'INSULIGHT' Hollow Glass Blocks



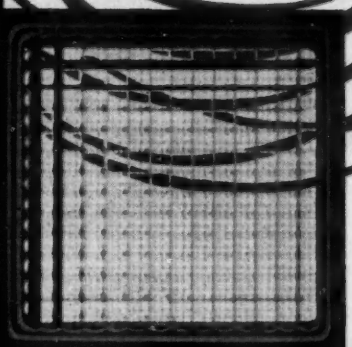


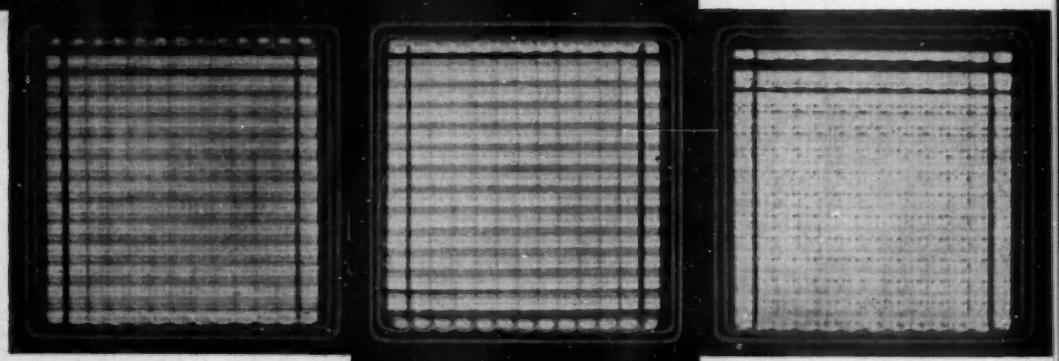


give

deeper light penetration

more even distribution





Due to the patterned surfaces of 'INSULIGHT' Hollow Glass Blocks, the depth of light penetration is much greater than that resulting from normal transparent glazing. This means that blocks provide much more evenly distributed illumination within the building.

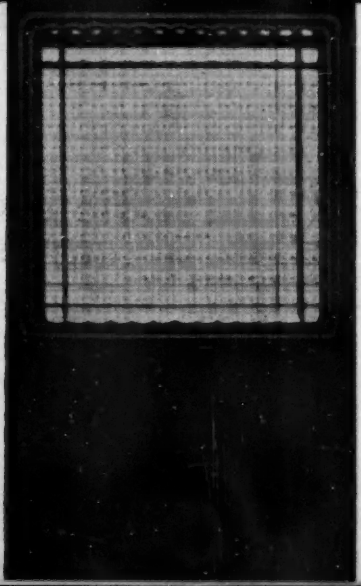
Light Diffusion is just one of the properties of this versatile building material, others are :—

Sound Insulation
Fire Retardance
Thermal Insulation
Reduction of glare
Privacy
Little Maintenance
Ease of Construction.

Blocks are available in a range of attractive surface patterns, sizes and shapes. Further information is readily available from the Technical Sales and Service Department, St. Helens (telephone : 4001) or Selwyn House, Cleveland Row, St. James's, London, S.W.1. (WHItehall 5672-6).

'INSULIGHT' is a registered trade mark of Pilkington Brothers Limited.

Supplies are available through the usual trade channels.



"INSULIGHT"

Hollow

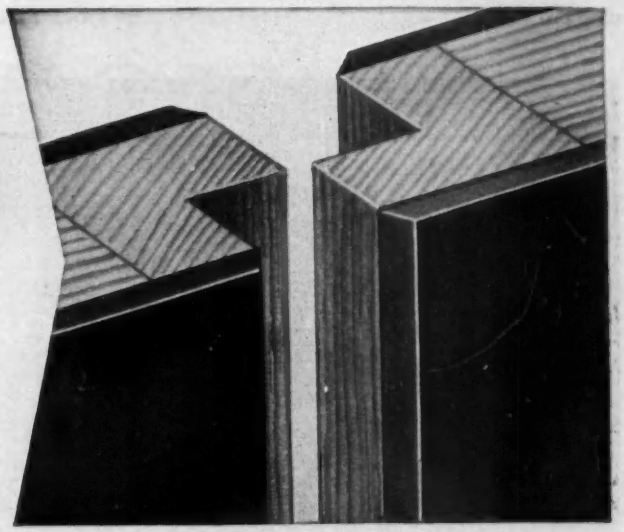
Glass Blocks

A UNIQUE MULTI-FUNCTIONAL MATERIAL

Pilkington Brothers Limited

ST. HELENS, LANCS

Here's something NEW in partitions

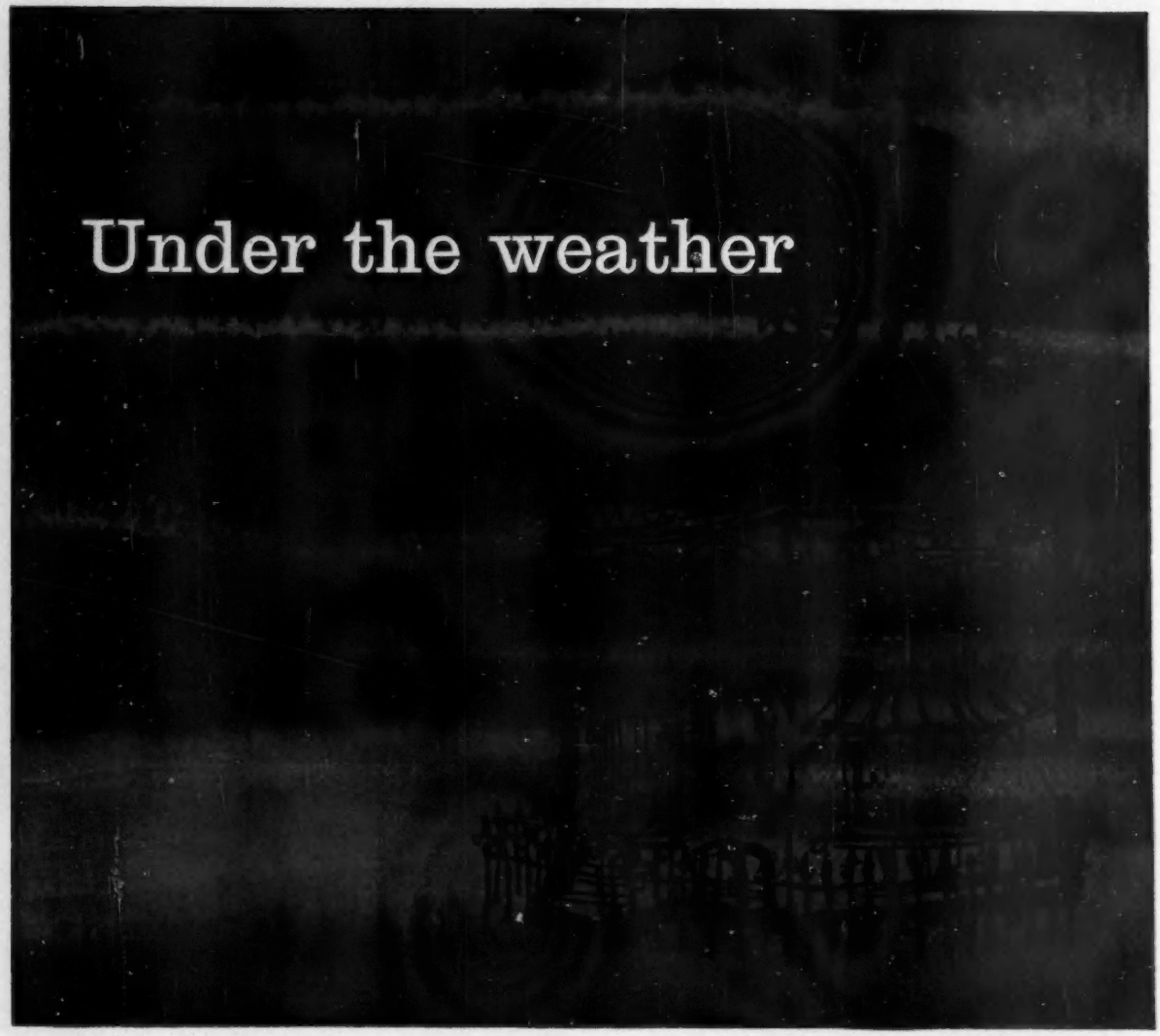


- ★ Rapid dry-construction
- ★ Flexible layout
- ★ De-mountable
- ★ Low cost
- ★ Hard surface
- ★ Sound reducing
- ★ Durable

Thanks to their ingenious design, STRAMIT 'MOVAFLUSH' PARTITIONS can be erected really quickly. Whilst top and bottom edges of each hardboard-faced Stramit panel are finished with square timber, the long edges have an L-shaped member. This means that successive panels can be rapidly, easily fitted together to give a flush finish. These new, dry-construction partitions are simply placed on a sole-plate and secured, being fixed to one another with screws which are neatly seated in brass cups.

STRAMIT 'MOVAFLUSH' PARTITIONS comprise essentially the familiar and well-tried Stramit building slabs and so have all the advantages of Stramit. They are strong, rigid, fire-resistant and have remarkable sound-deadening properties. As STRAMIT 'MOVAFLUSH' PARTITIONS are faced with hardboard, they offer an exceptionally good surface for decoration.

For all their outstanding advantages, STRAMIT 'MOVAFLUSH' PARTITIONS are surprisingly low in price. They are supplied complete with all timber-sections, doors, screws and cups for vertical joints (glass and door-furniture are not included) and delivered to site. Owing to careful prefabrication, the costs of erection and decoration are kept to a minimum.



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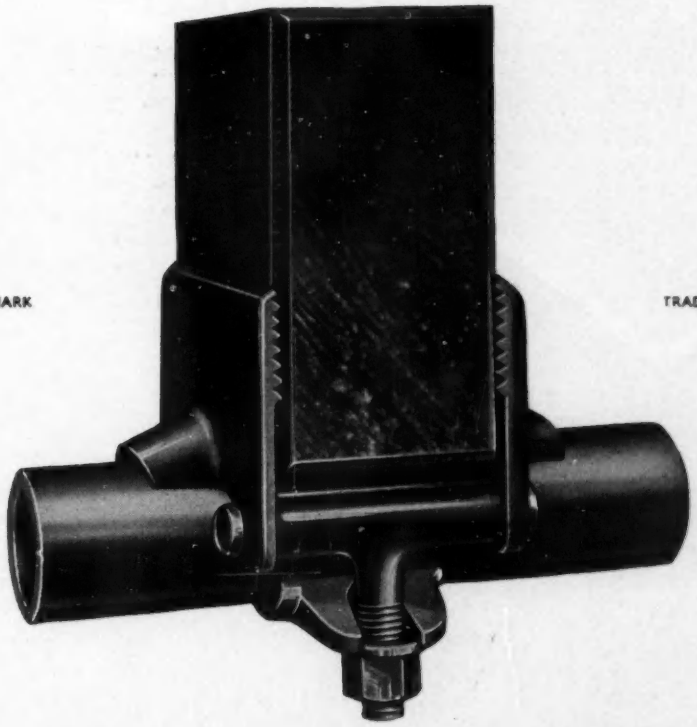

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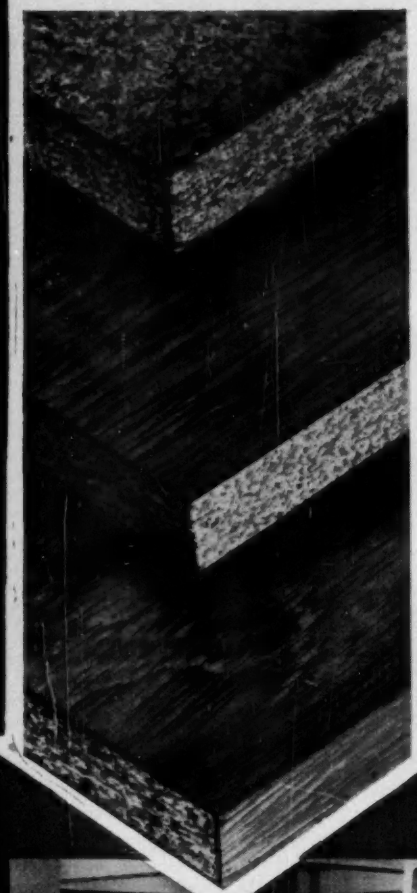
NEW technique in building construction



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better build bridges with

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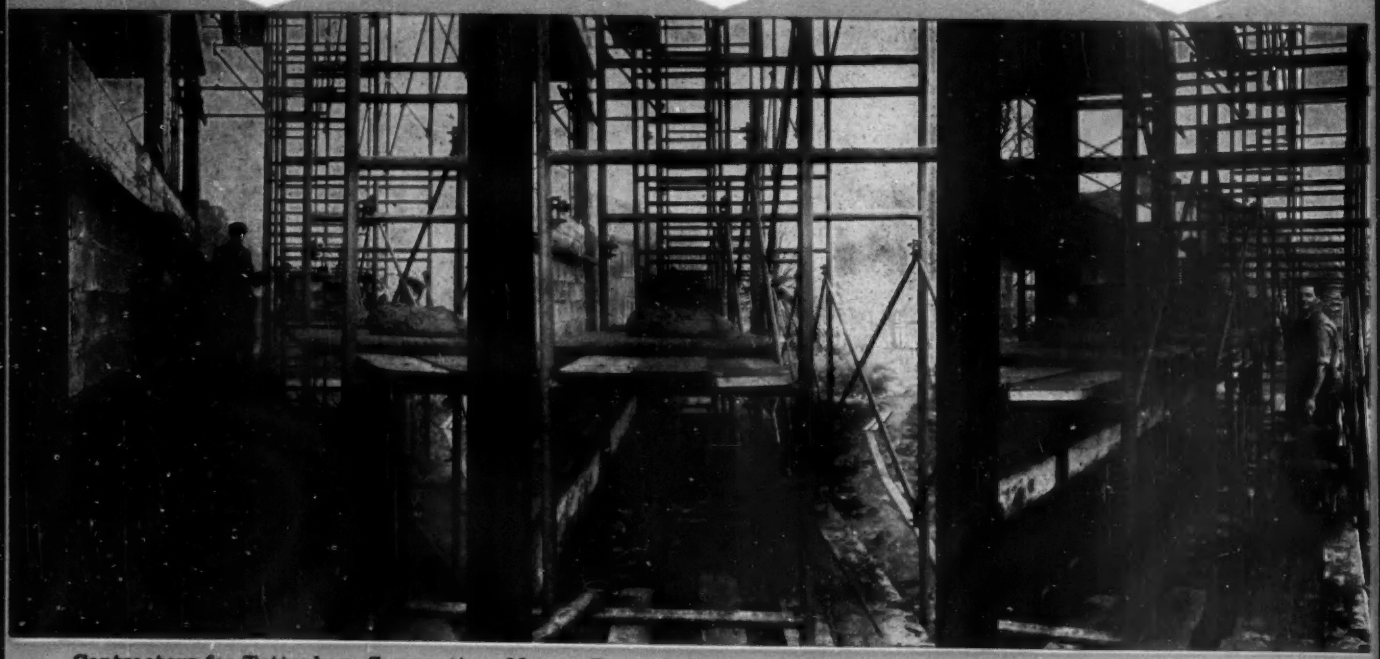
"FULL PURPOSE" FRAME

a time-shattering NEW unit frame

full access to building face with materials at ideal levels

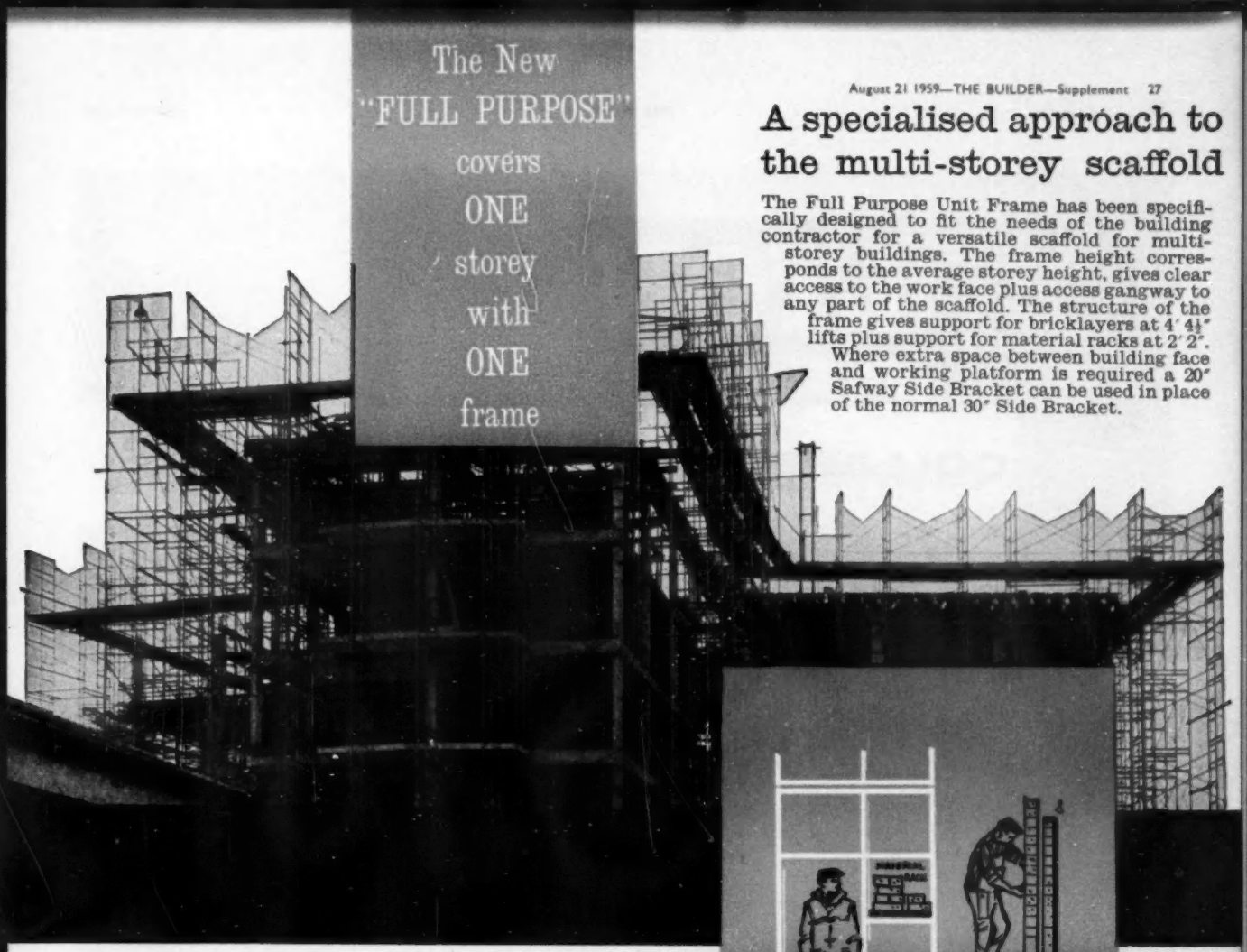
centre view showing convenience of 2ft. 2ins. spacing of material platforms

full 6ft. headroom gangway for easy accessibility



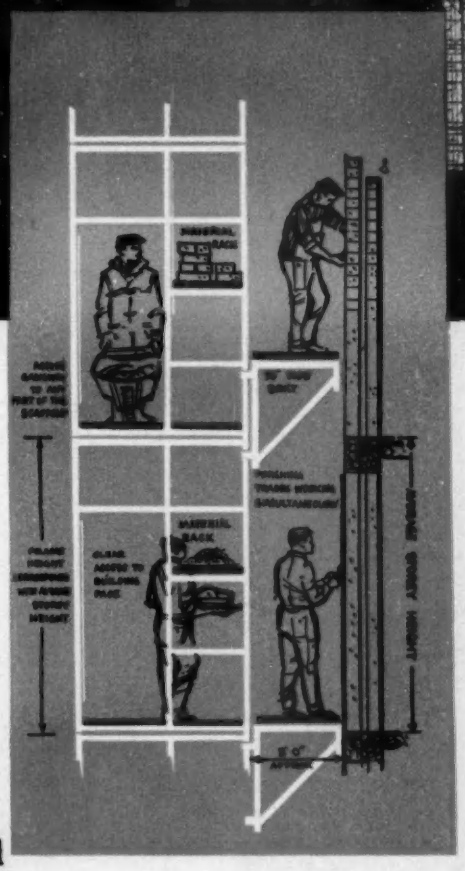
Contractors for Tottenham Corporation: Messrs. Drury & Co. Ltd. of Leicester. Borough Engineer and Surveyor: Walter Bryant, A.M.I.C.E., M.I.Mun.E., M.R.San.I. Chief Architect: V. A. Jolley, A.R.I.B.A.

The three illustrations above illustrate the time-shattering simplicity of this new Safway Full Purpose Unit Frame which gives perfect working conditions for all trades. One Unit gives safe working support for access gangway, together with material racks 2′5″ wide. Operatives have a clear walkway within each frame plus clear access to building face.



A specialised approach to the multi-storey scaffold

The Full Purpose Unit Frame has been specifically designed to fit the needs of the building contractor for a versatile scaffold for multi-storey buildings. The frame height corresponds to the average storey height, gives clear access to the work face plus access gangway to any part of the scaffold. The structure of the frame gives support for bricklayers at 4′ 4½″ lifts plus support for material racks at 2′ 2″. Where extra space between building face and working platform is required a 20″ Safway Side Bracket can be used in place of the normal 30″ Side Bracket.



50% saving in erection time

One storey, one frame gives saving in erection time; frames are easy to handle and stack, NO LOOSE FITTINGS, no dismantling of main scaffolding. Cross braces ensure utmost rigidity.

★ **Incalculable economies in working convenience**

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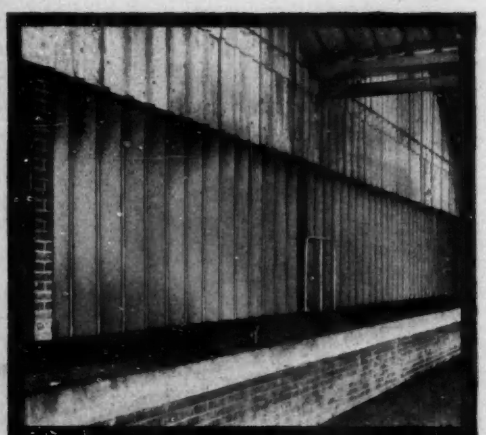
Jarrow: Sterling Factory, Jarrow, Co. Durham. Tel.: Jarrow 89-7721/2/3

London: Iddesleigh House, Caxton Street, S.W.1. Tel.: ABBey 3017/8 (2 lines)

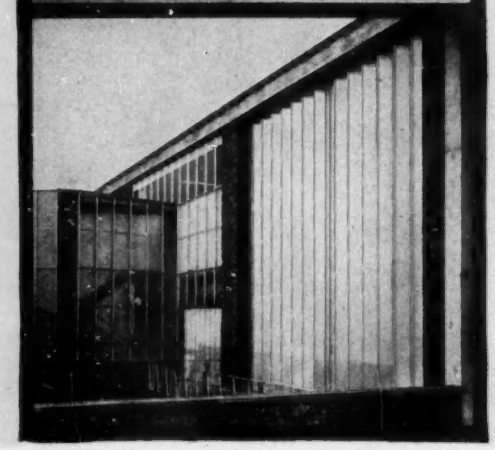
BOLTON

COLLAPSIBLE SHUTTER DOORS



1

2



3

The illustrations show how versatile the Bolton Patent Shutter Door really is and installations everywhere are giving lasting trouble-free service. The doors are craftsman built from tested materials to a design which has never been bettered and hand or power operation may be had for any situation. Some of the details of the design and reasons for the popularity of Bolton Patent Shutter Doors will be seen from the diagrams.

1 Two hand operated doors fitted to a loading bay for the British Oxygen Co. Ltd., Carlisle.

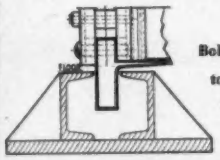
2 Two electrically operated doors at Metropolitan-Vickers Electrical Co. Ltd., Manchester.

3 One pair of electrically operated doors at a test bed for the Bristol Aeroplane Co.

The illustration right shows a partly bunched Bolton Patent Shutter Door at Onehunga War Memorial Swimming Pool, New Zealand.

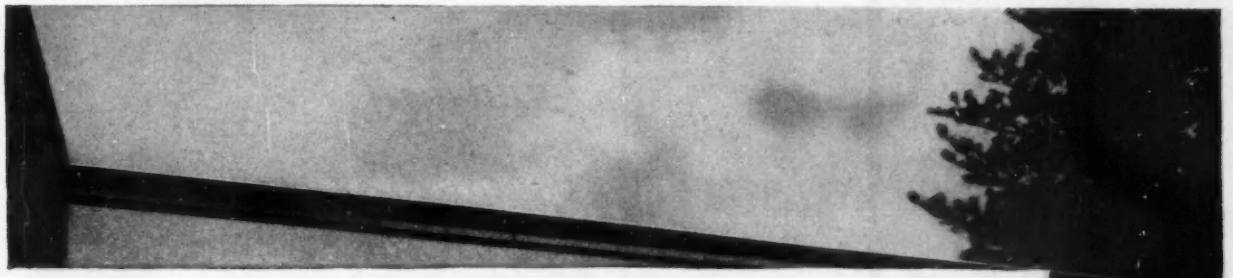
For full details write now for our comprehensive Catalogue No. B306

Bottom Track

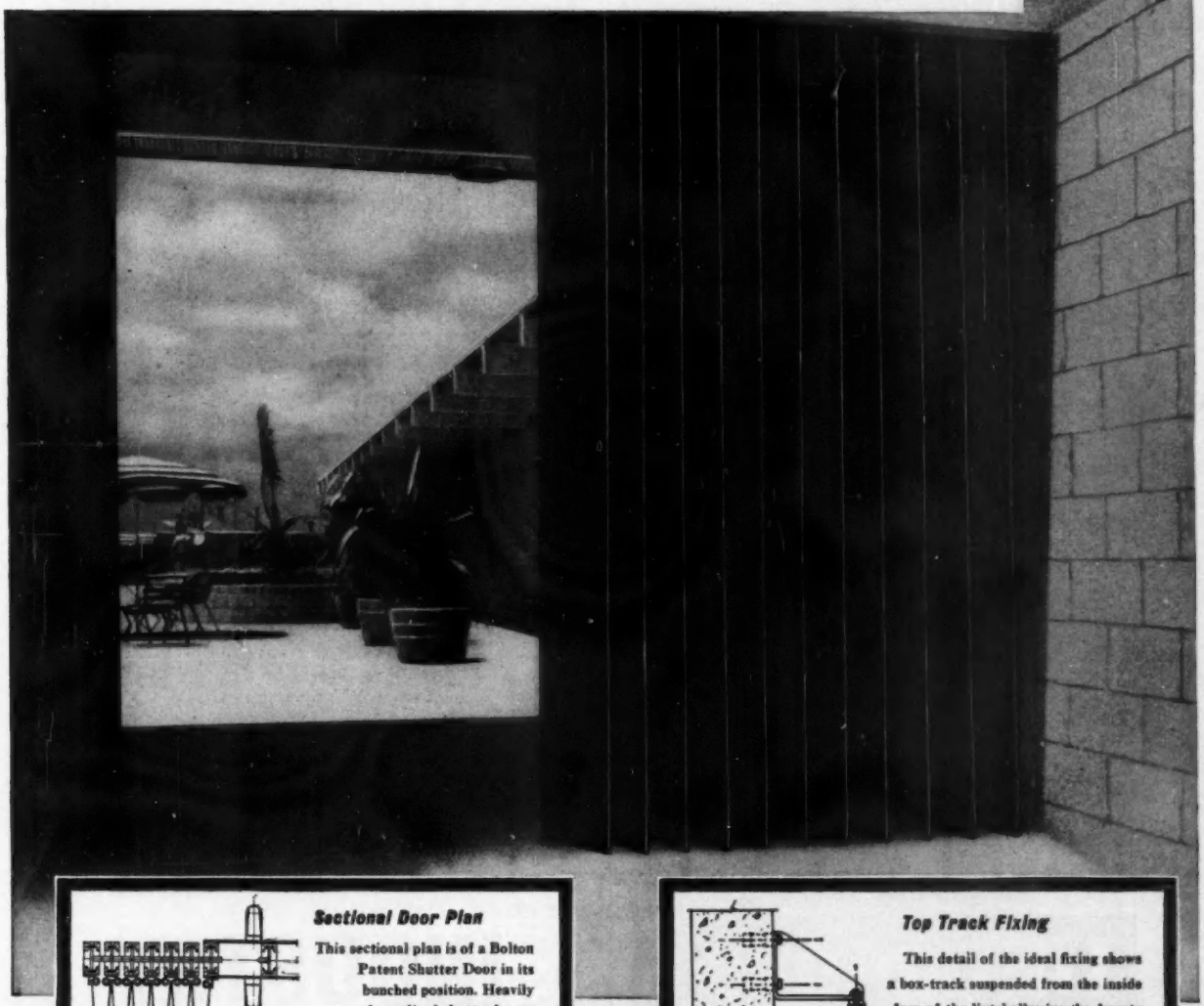


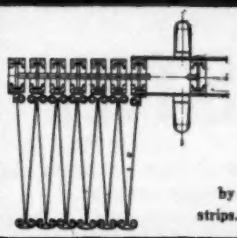
This is purely a location guide since Bolton Patent Shutter Doors are entirely top hung. The bold outline indicates the bottom guide piece which supports the heavily sherardised leaves.

BOLTON GATE COMPANY



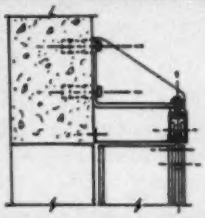
FOR EVERY TYPE OF OPENING





Sectional Door Plan

This sectional plan is of a Bolton Patent Shutter Door in its bunched position. Heavily sherardised shutter leaves are curled round ¼" dia. wire reinforcement and are connected by full height bronze or alloy hinging strips. Steel pickets are at the rear side.



Top Track Fixing

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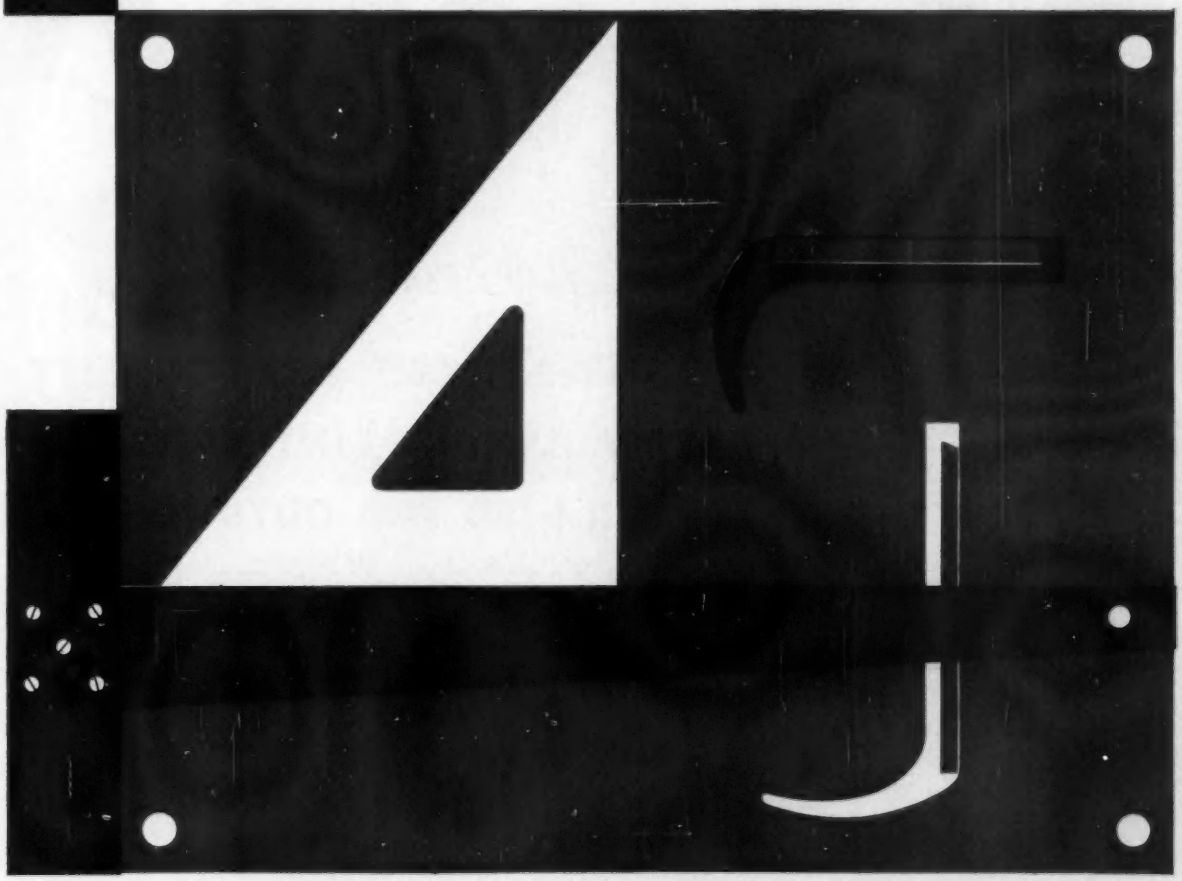

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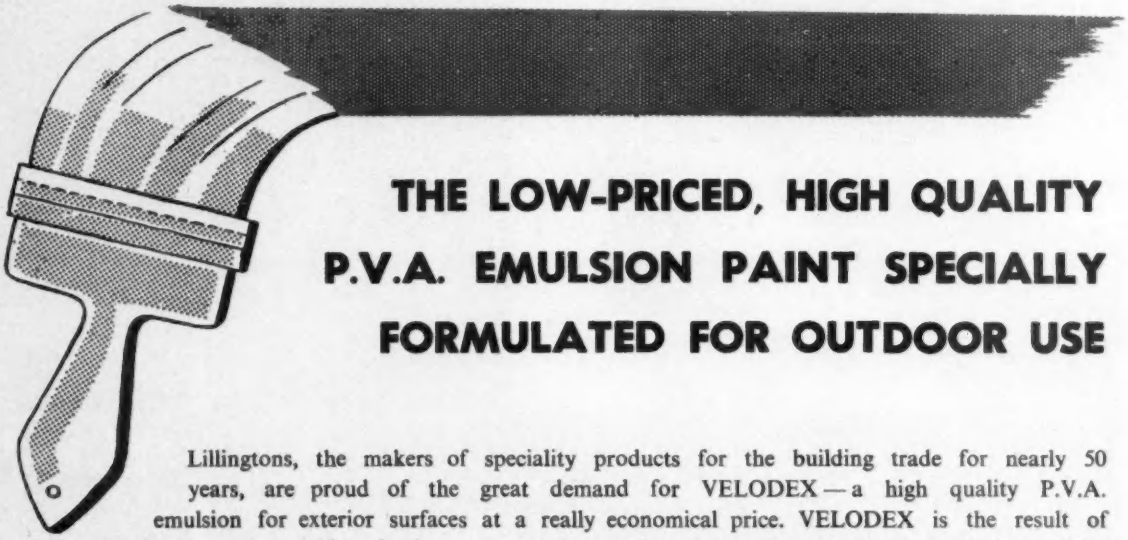

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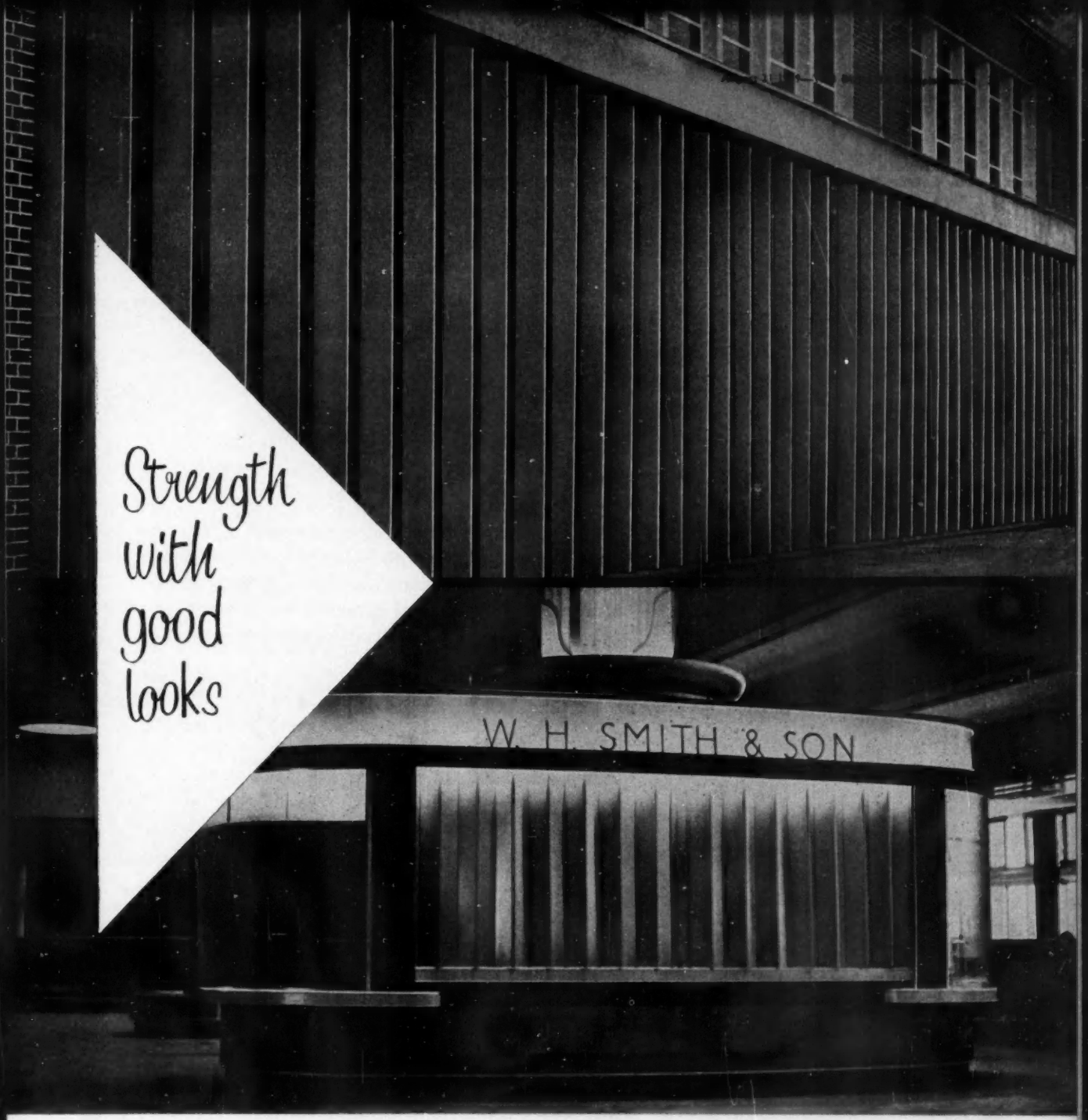

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The eggs are in fewer baskets

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"Any large-scale closing of brickworks at the present time would not only seriously curtail future supplies; it might well place the building industry in a difficult position both as to supply and prices of bricks when the present building restrictions are removed."

The supply position now developing as a result of greater activity in the building industry provides early justification for this warning. Since it was issued, a number of brickworks have been compelled to close down. Meanwhile, builders who were attracted further afield by lower prices are finding that even the largest sources of supply are not inexhaustible.

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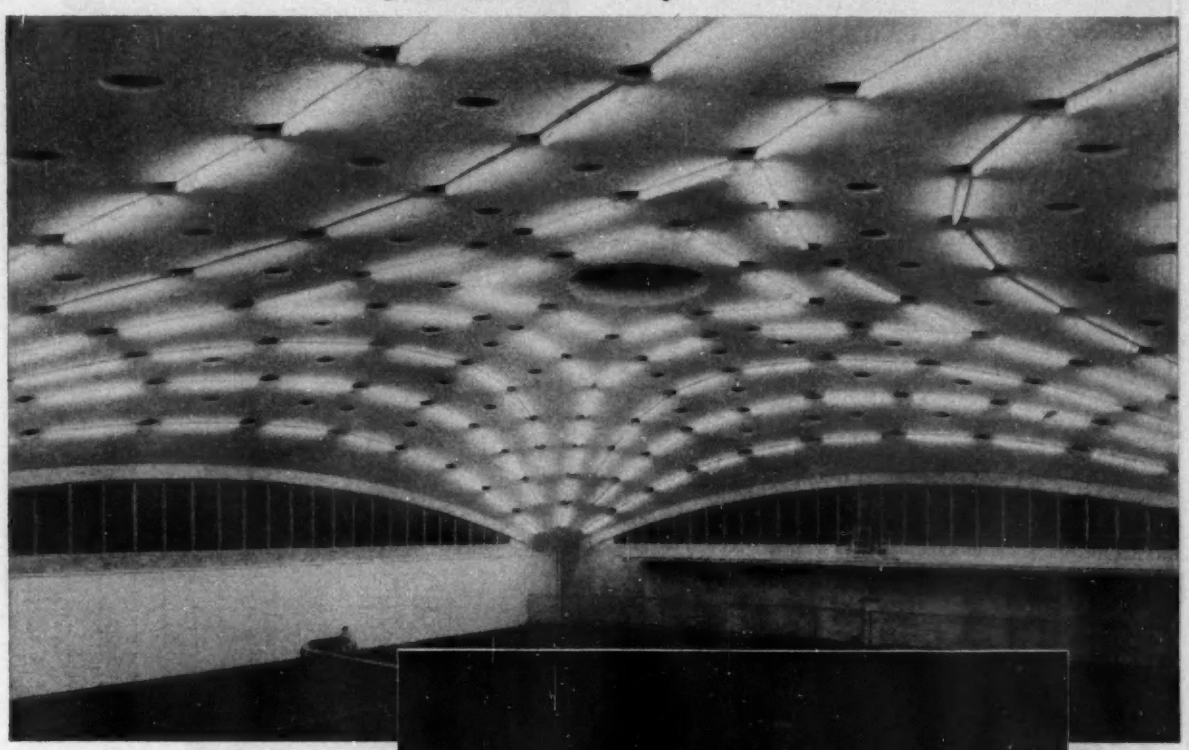

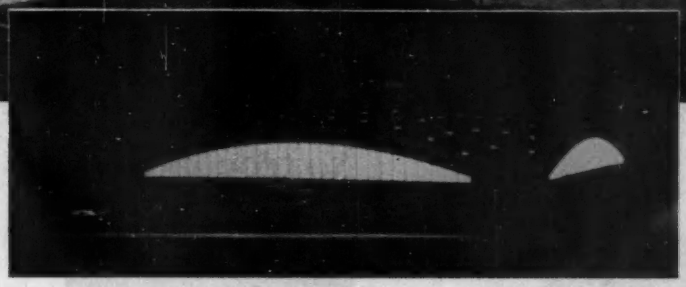

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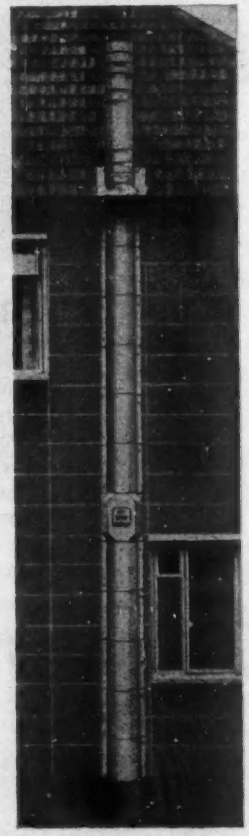

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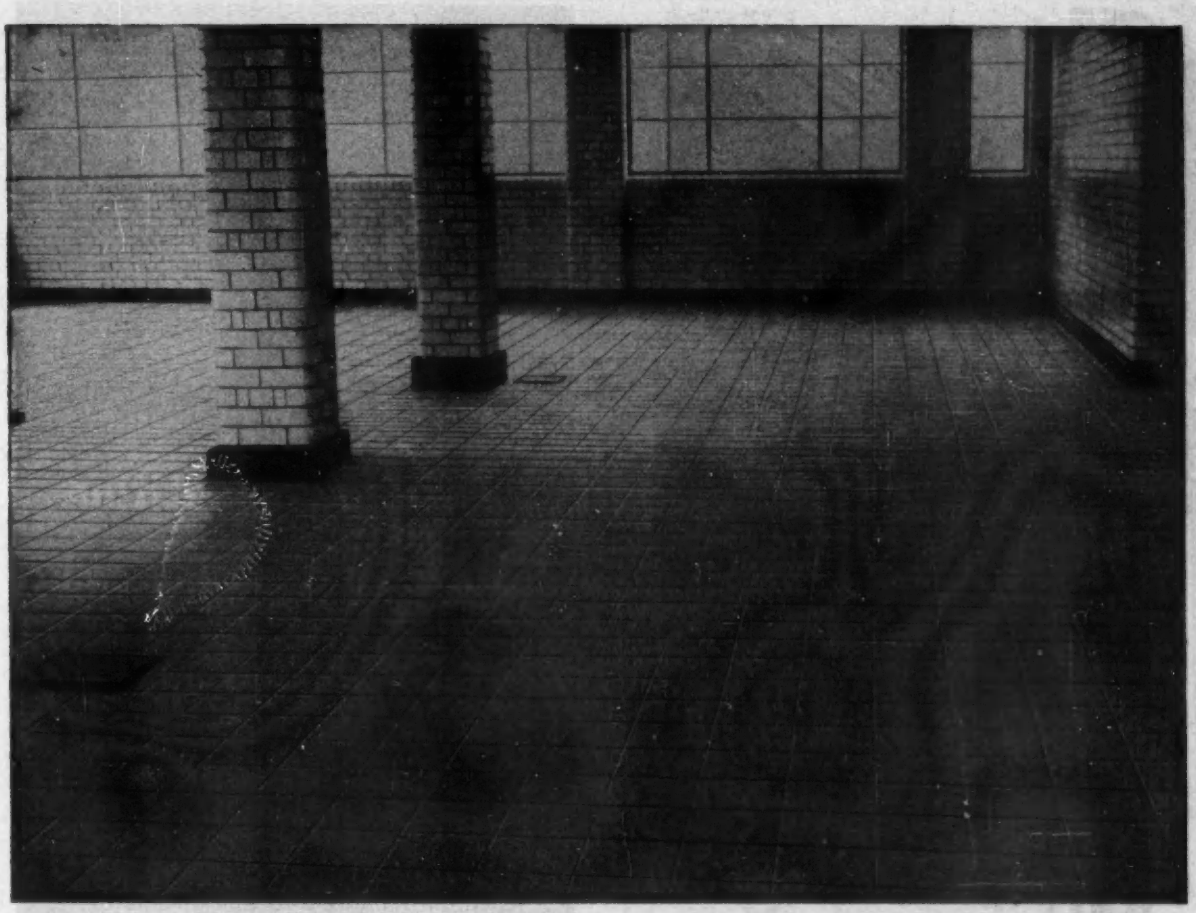

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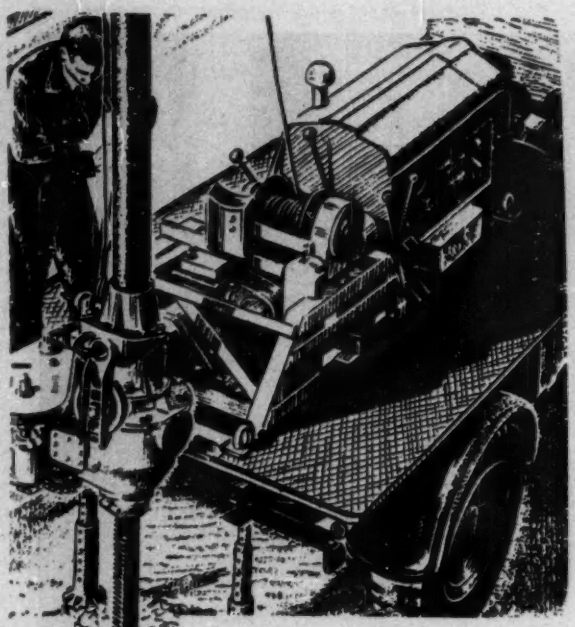

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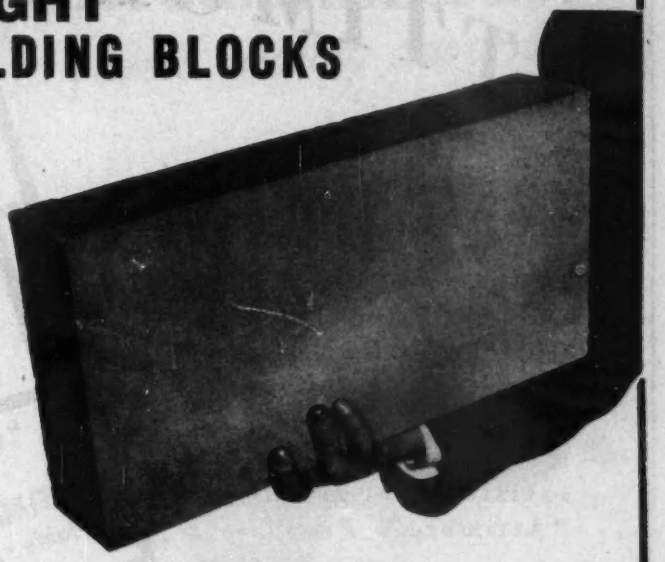

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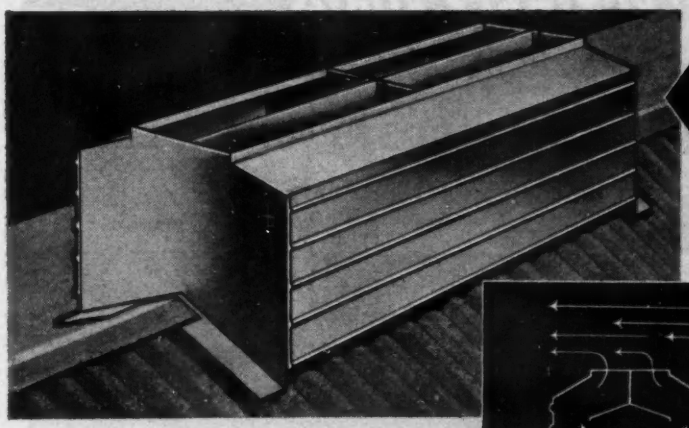

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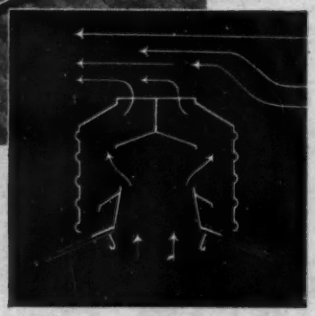

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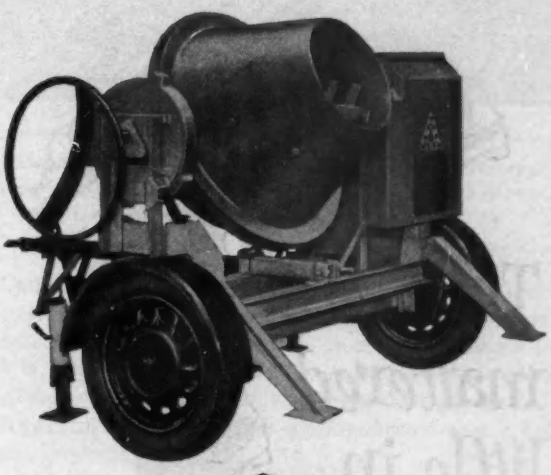

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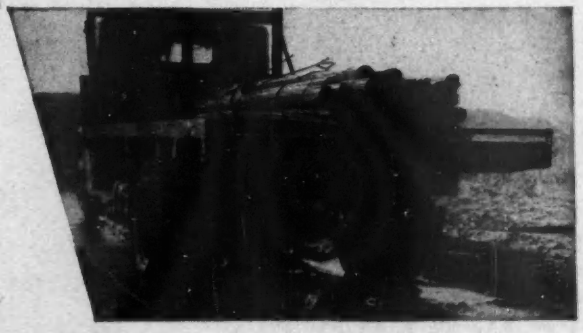

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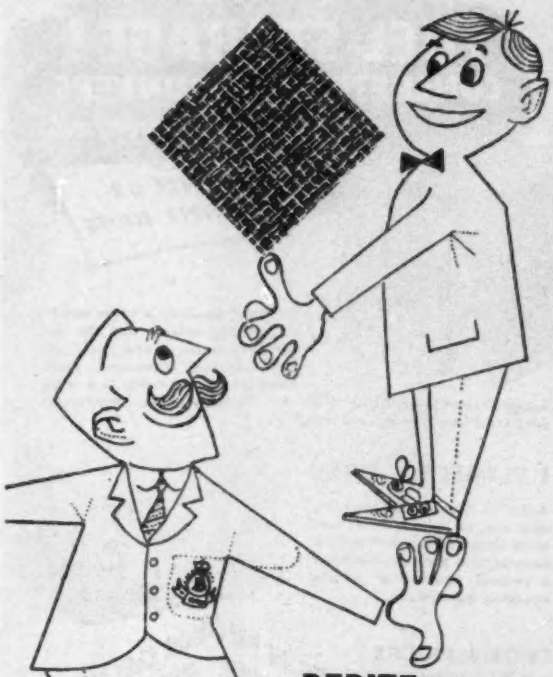

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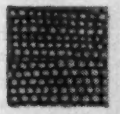

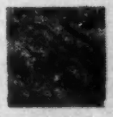

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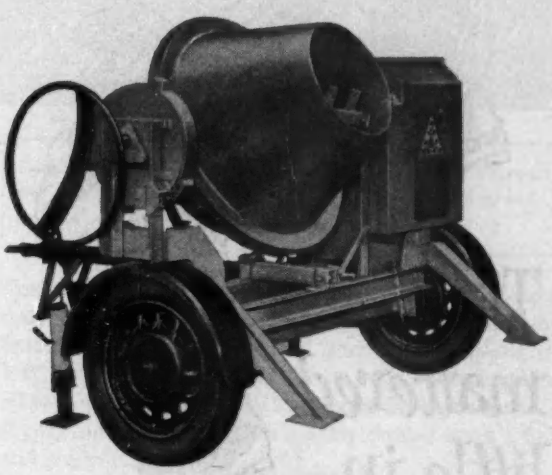

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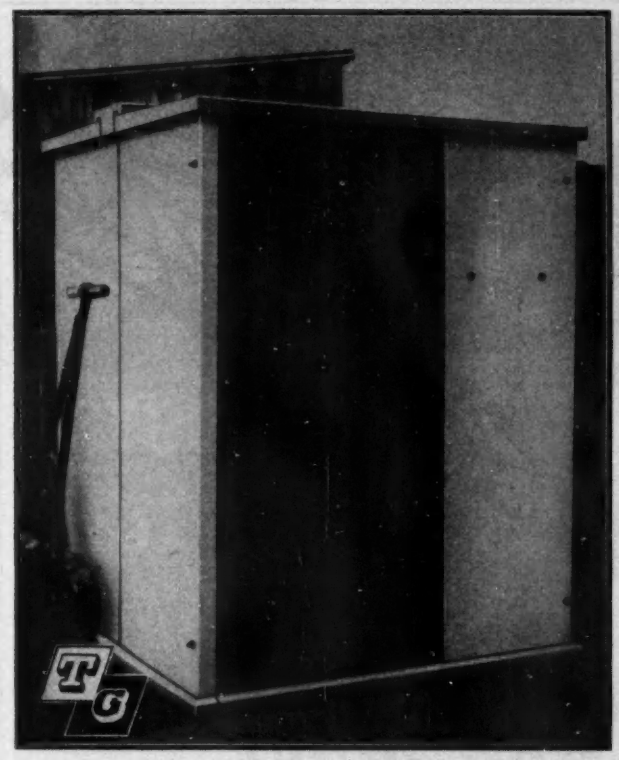

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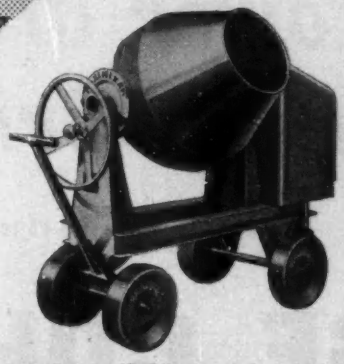

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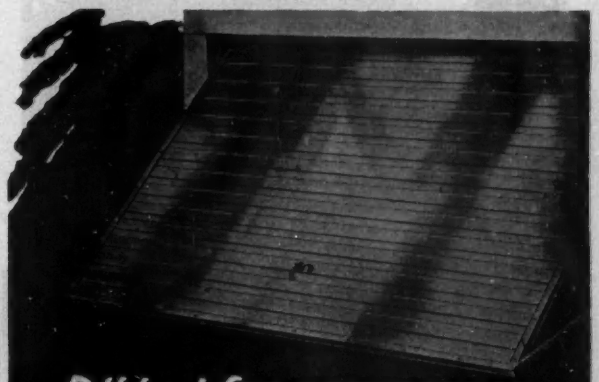

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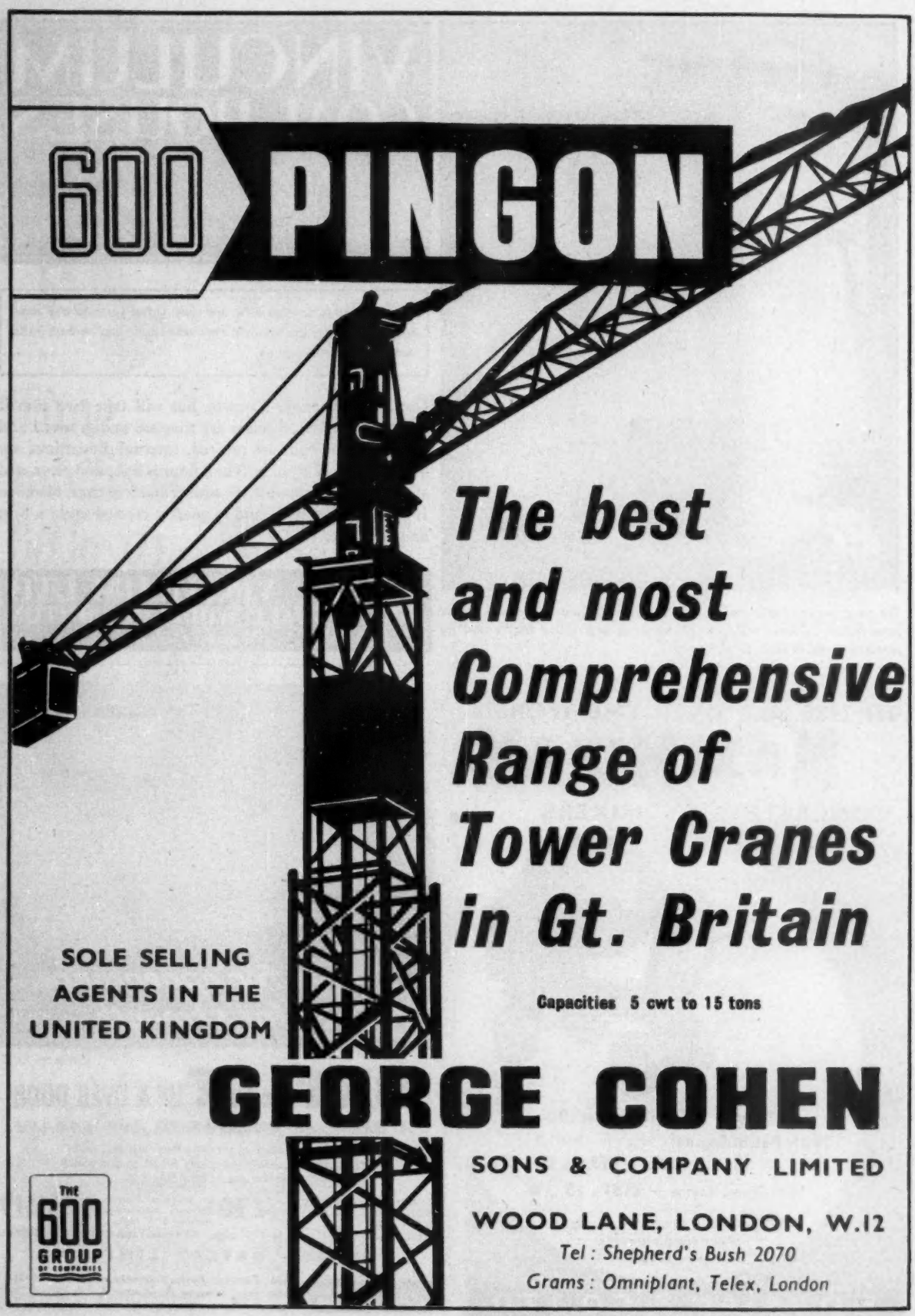
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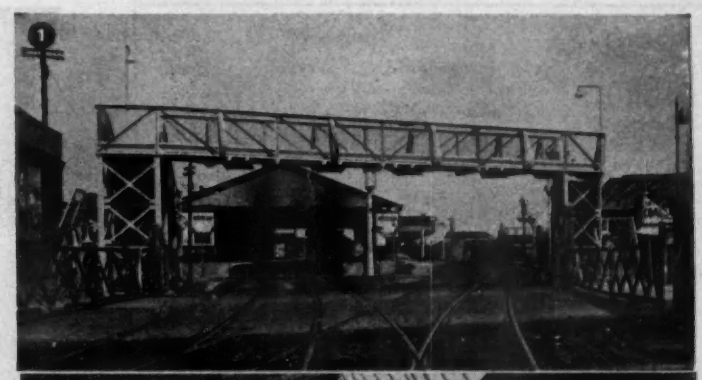

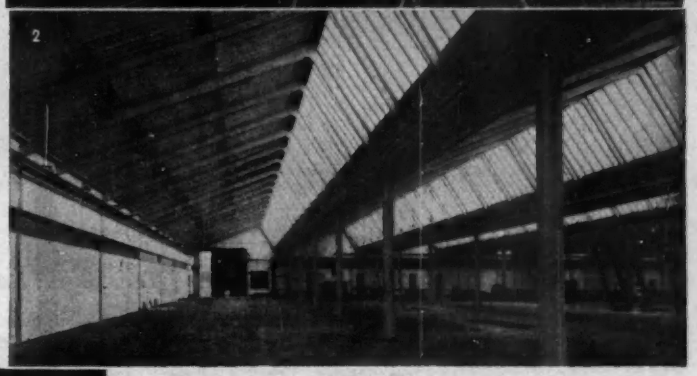

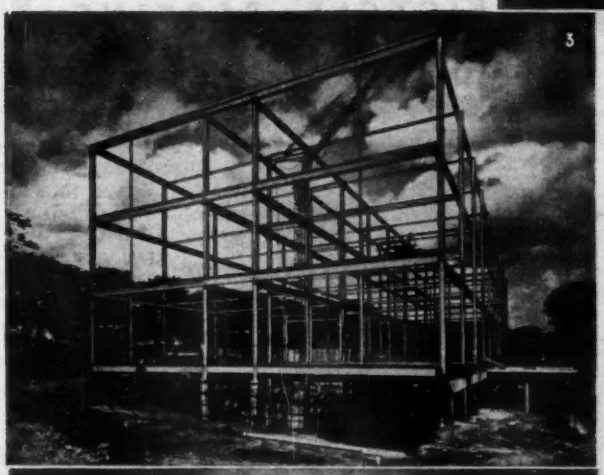

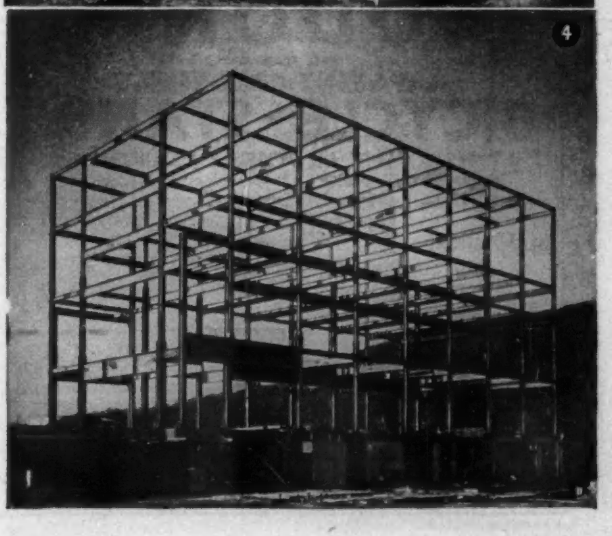

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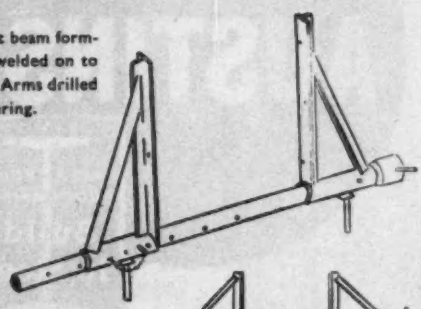
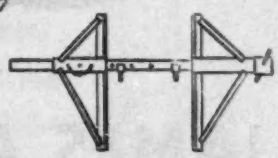
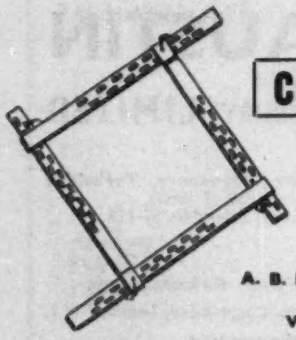
Fully adjustable from 6" to 2' 0" and supplied with interchangeable arms in lengths 12", 18", 24".



Combined wall and beam clamp.





COLUMN CLAMPS

Fully adjustable and easy to erect. Keeps shuttering firmly in position.

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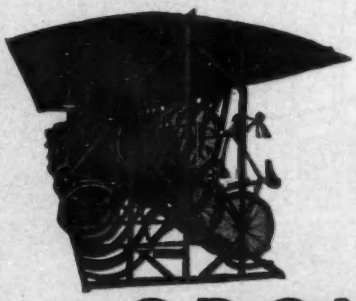

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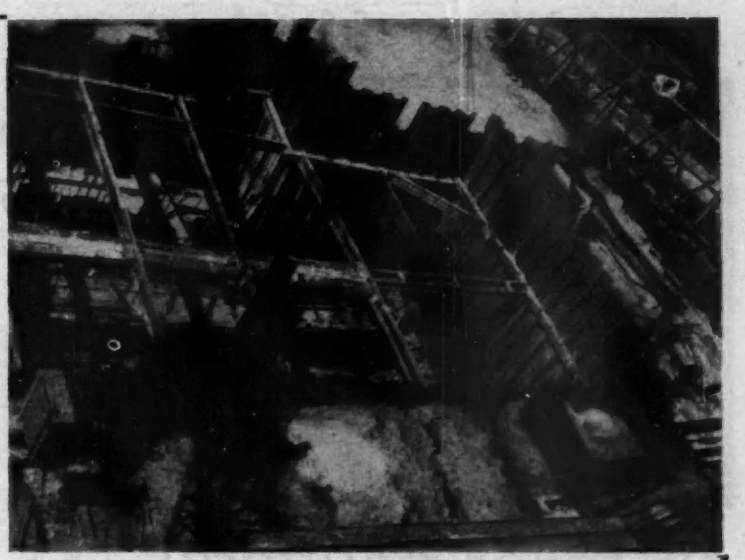

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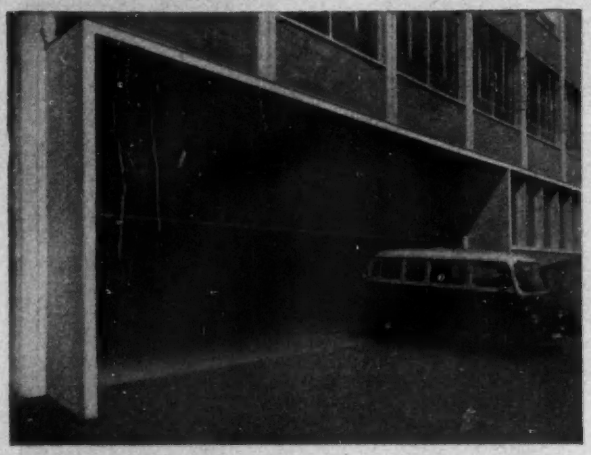
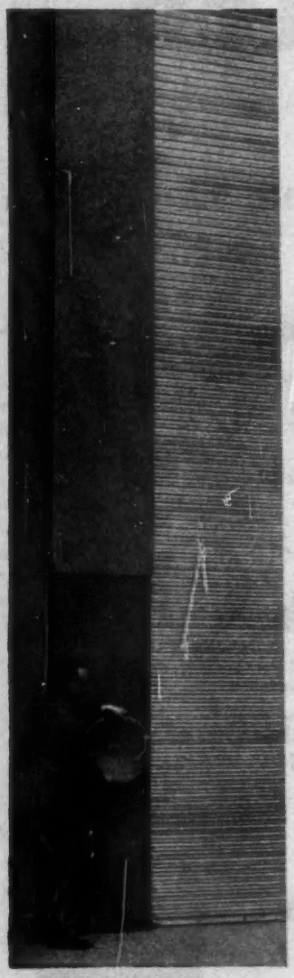
Milner for



all roller shutters!



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Among the many exclusive advantages of Milner shutters are these:

Ball bearings at every friction point. Deep side guide channels for security. Close-coiled helical torsion springs ensuring a balanced curtain and ease of operation. Deep section curved slats for strength.

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A high-grade bituminous paint that *preserves* and *protects* metal surfaces—Presomet

ALL OUTSIDE SURFACES need protection against weather. You can stop metal surfaces from rusting, wood or felt surfaces from deteriorating, simply by applying Presomet, a high-grade bituminous paint that is manufactured by the National Coal Board and covers for only 1d. per square yard.

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Presomet

Supplied in three grades from your dealer or direct from the

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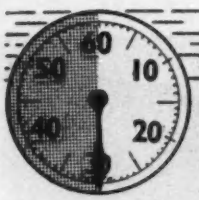

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THE LINER

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Contractors portable model with integral mechanical weigher.

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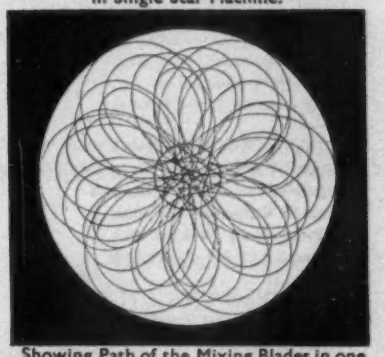
Diagram of Mixing Blades in Single Star Machine.



Showing Path of the Mixing Blades in one Revolution of the Pan.

25 years SUPERIORITY... still the best!

There is no other mixer as good as the Cumflow . . . not even another Liner Mixer! Here are some brief extracts from satisfied customers letters.

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- *'Maintenance cost per ton of mixed concrete too small to be calculated'*
- *'These machines work perfectly'*
- *'It is the finest mixer obtainable'*

Fuller extracts from letters can be seen on request.

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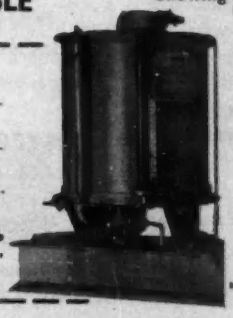

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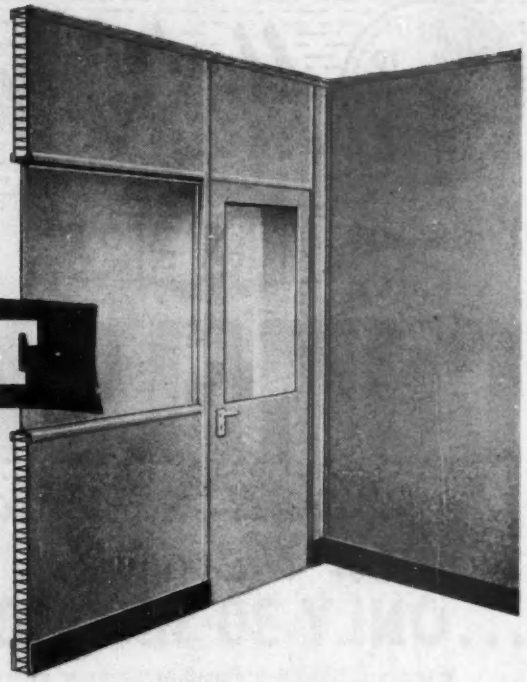
GYPUNIT



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GYPUNIT PANELS
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GYPROC PLASTERS

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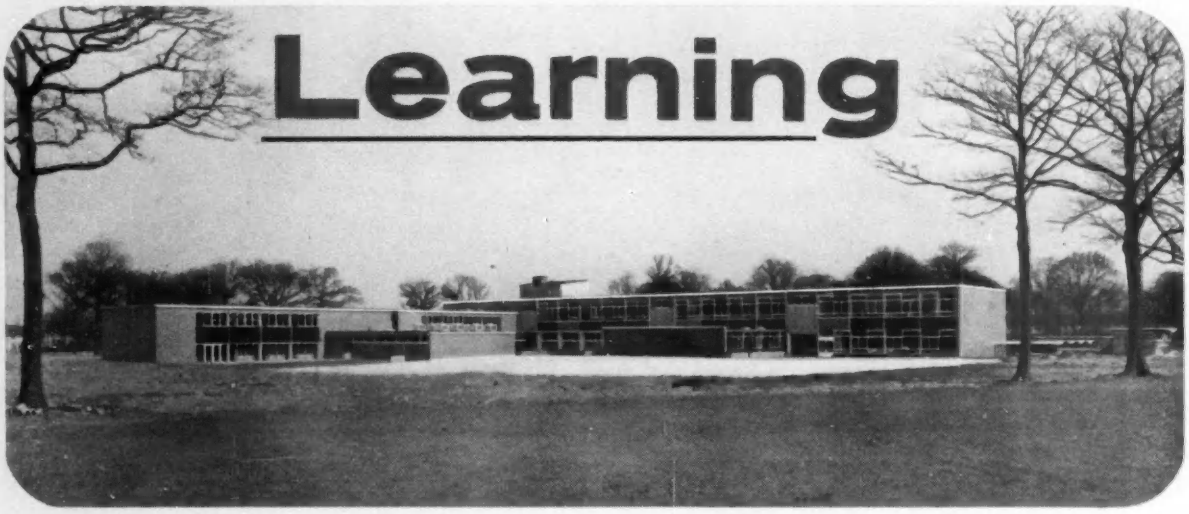

(Photograph—The Maidstone Senacre Secondary School.
Architects: Dennis Darbison, A.R.I.B.A. in collaboration with E. T. Ashley-Smith, F.R.I.B.A. County Architect.
Contractors: J. A. Davison & Sons, Ltd).

The Maidstone Senacre Secondary School, recently erected by the Kent County Council, is a fine example of contemporary architecture, set amid congenial surroundings.

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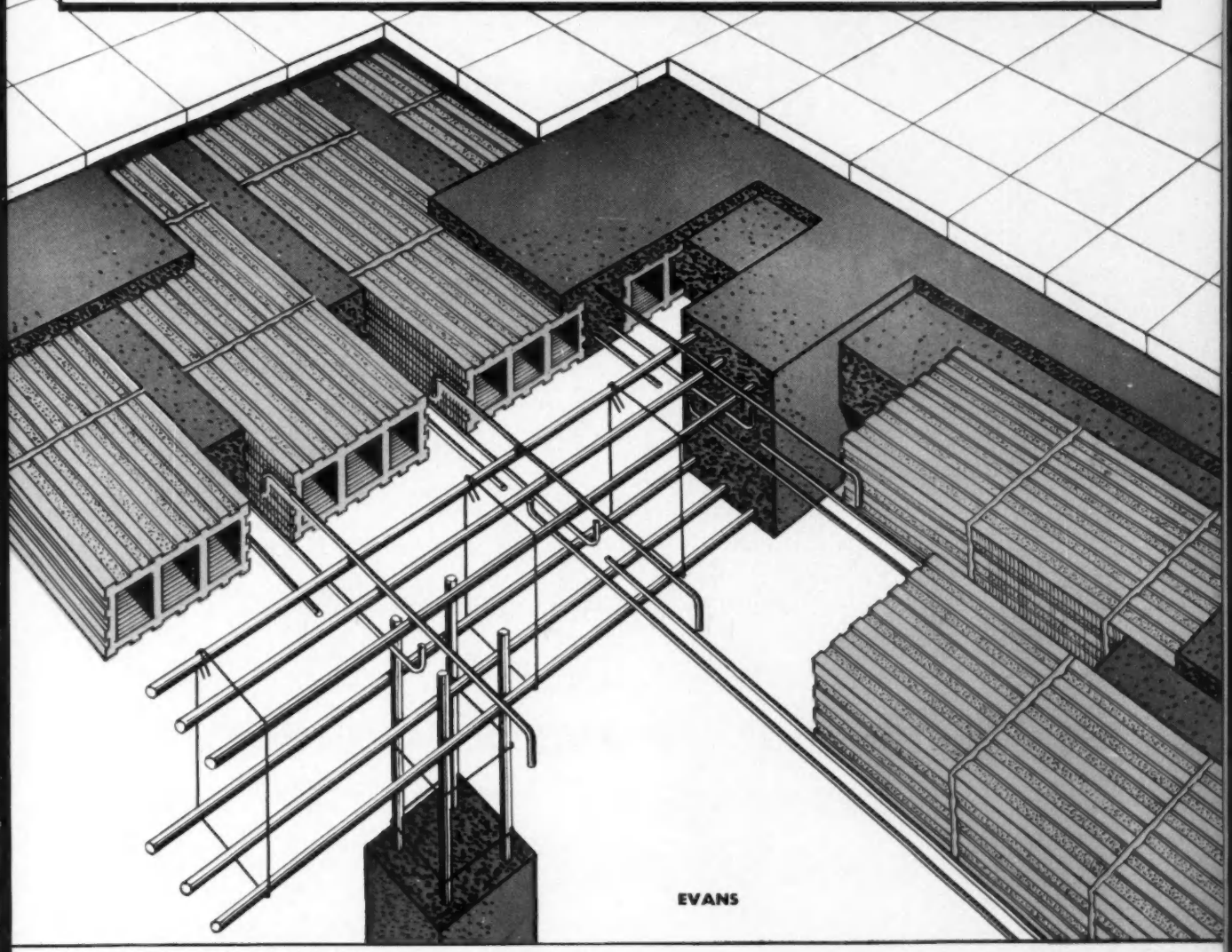

We wish to thank the Kleine Company, Ltd., for their co-operation in compilation of this advertisement.

THE PRODUCT The depth of a Hollow Clay Block Floor, the thickness of the topping or screed of concrete above the blocks, the width of the beams or ribs between rows of blocks and the size, the number and location of the reinforcing steel placed in the ribs, are all governed by the span of the floor and the loading it has to carry. 'Phorpres' Hollow Clay Floor Blocks are specially made for *in situ* floor construction; they are all 12" long by 12" wide, but they are available in eight different thicknesses ranging from 3" to 10" in multiples of one inch, so that any normal span and loading can be accommodated. All the blocks are grooved to give a good dovetail key, both for the ceiling plaster and for the cast *in situ* concrete.

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THE ADVANTAGES ***Strength*** Properly designed *in situ* Hollow Tile Floors possess great strength combined with light self-weight. The good bonding between the concrete and the grooved blocks ensures that the stresses from concentrated loads are well spread over the structure, and the monolithic character of the floor makes it particularly suitable where vibrations from mechanical sources are to be expected.

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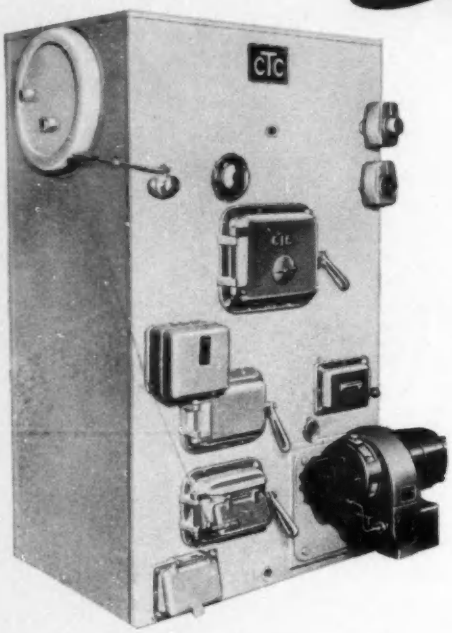

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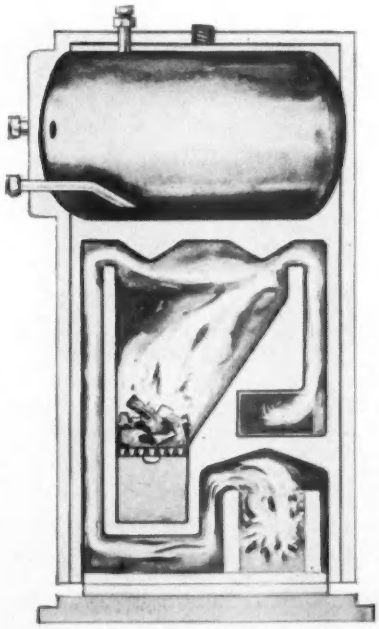

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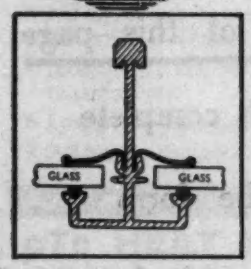

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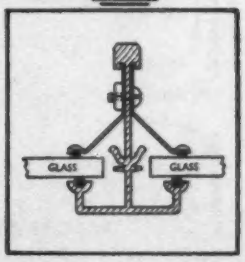

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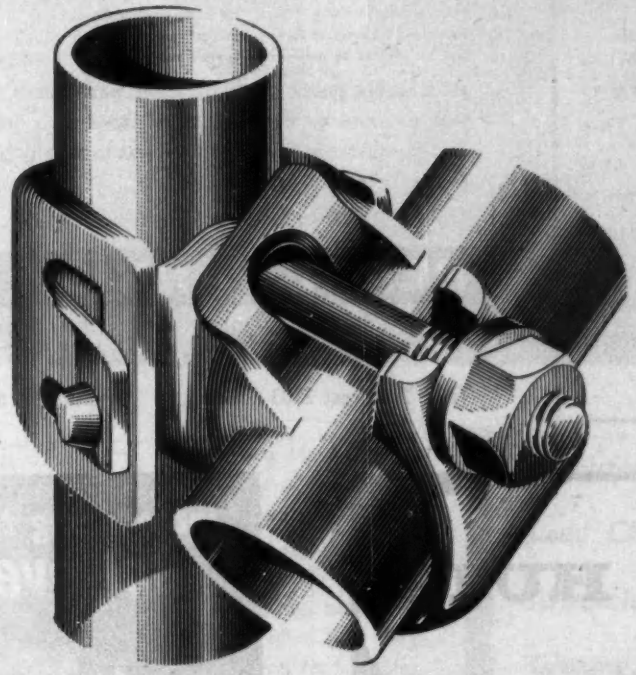

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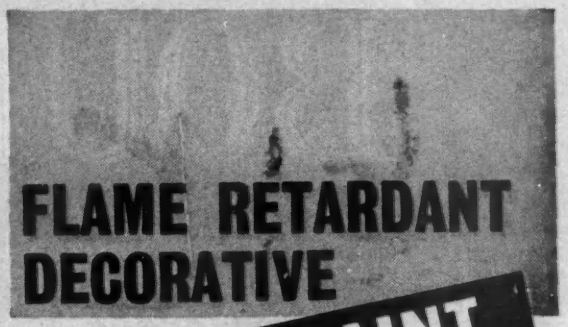

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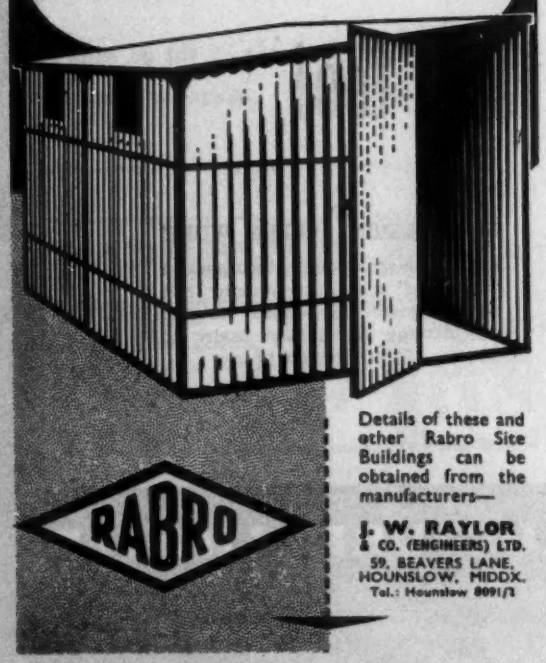

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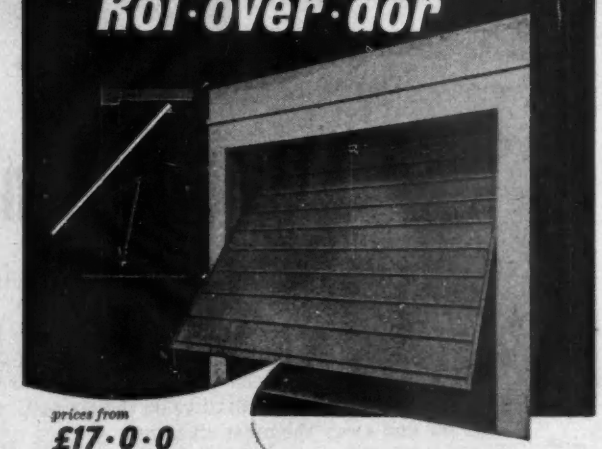

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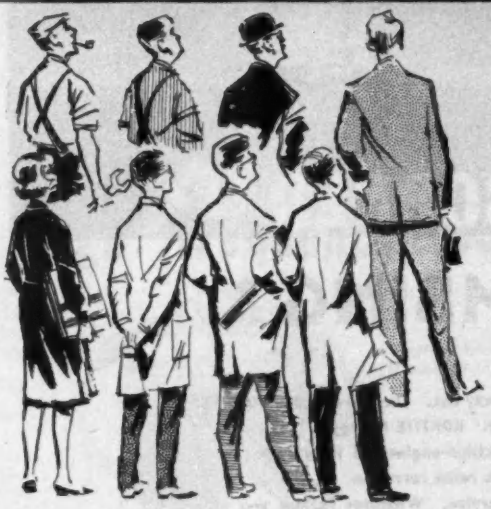

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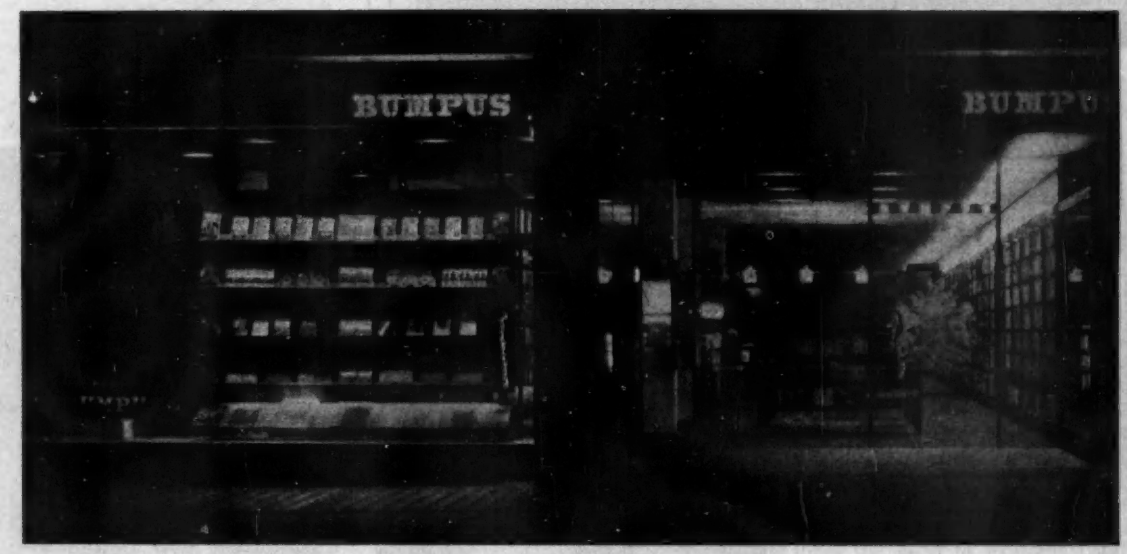

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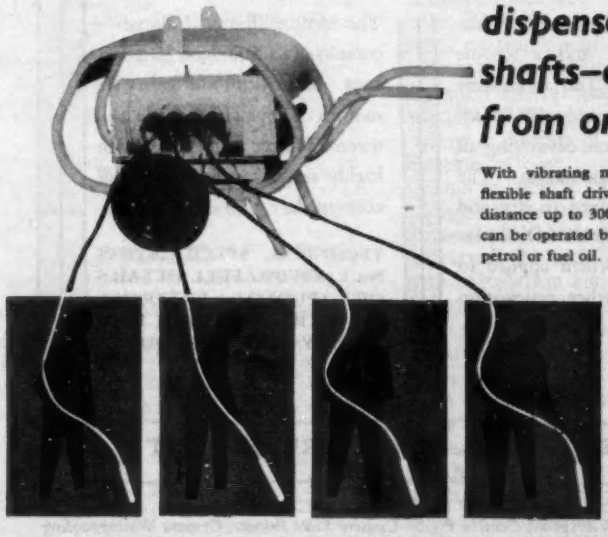

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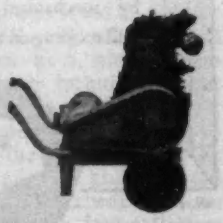

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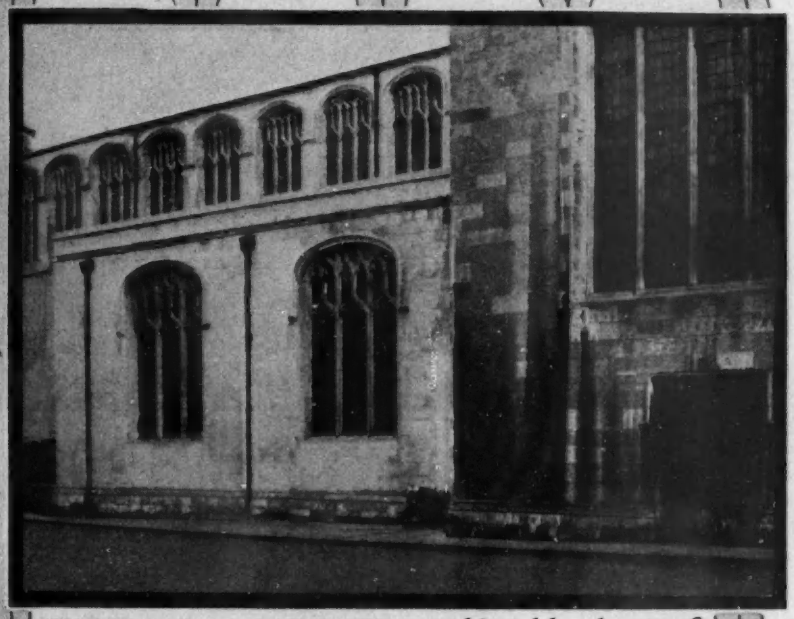

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NEWS SUMMARY

'THE OUTPUT price index for housing seems to have fallen by about 3 per cent in a year,' states 'The Builder' quarterly analysis of trends in productivity and prices. p. 54

DETAILS are announced of an architectural competition for new Civic Buildings at Taunton. p. 61

SURREY CC's plan for the development of the site of Croydon Airport includes provision for housing and public open space. p. 62

THE NEW PROCEDURE for planning applications and appeals under the Town and Country Planning Act, 1959, which came into force on August 16, is described by a Legal Correspondent. p. 65

CHANGES in municipal housing over the past 40 years are described in retrospect by Mr. C. W. Craske, FRIBA (Ret.). p. 73

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THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVII August 21st 1959 No. 6066

WIND EFFECTS ON ROOFS

THE disaster at Hatfield which occurred on the night of November 4, 1957, in which 46 houses lost their roofs, started a chain of developments of which a further stage has recently been reached in the publication of the Building Research Station Digest No. 122 'Wind Effects on Roofs,' some extracts from which are published elsewhere in this issue.

It has of course long been known that wind has a habit of taking the roofs off buildings—and even of lifting buildings themselves. The principles for design are well known and are enumerated in the British Standard Code of Practice CP3 Chapter V (1952), Loading. It might however have been felt that such principles only needed to be applied to engineering structures such as barns and hangars, and that houses were immune from such ravages.

Digest No. 122 will do three things. In the first place it will re-emphasise, as Hatfield and its subsequent train of inquiries started to emphasise, that the stability of roofs of houses cannot be taken for granted. It draws to the attention of all concerned with building that modern developments of lightweight roofing construction bring with them the need to examine carefully the anchorage of roof structures. No longer is it only necessary, as it might have been with heavier forms of construction, to ensure that the roof of a house will not fall down; it is also essential to ensure that it will not blow off.

It sets out the design principles involved more in the form of a text book than is possible in a 'Code,' and it may well be that in reading it, those concerned with building will gain an appreciation of the forces involved and the need for carrying out some quite simple calculations to see whether their designs are at all marginal and therefore in need of further and more detailed study.

In the second place, the Digest discusses the problem to which the Code gives little guidance—that of Monopitch roofs—and links with it the special problems induced by lightweight construction in this type of roof. In particular, it gives a set of figures for designing this type of structure which calls for larger upward pressures than the Code would provide, especially in the end houses of terraces.

In the third place, the Digest calls attention to the fact that because the roofs to traditional houses required no special anchorage, it is particularly necessary, for the lighter form of roofs, to draw attention to any special fixings for such special anchorage in the contract documents so that these can be adequately supervised. As the Digest points out, it is usually possible to obtain a margin of safety much higher than the minimum with little extra increase of cost.

This particular failure was of such a spectacular nature that it inevitably brought in its wake a vast amount of publicity and inquiry. It is perhaps fortunate in this respect that such publicity has brought to the attention of all concerned the pitfalls of modern design and the need for greater precision in both calculation and supervision. But it is only on account of the spectacular nature of the damage that it has been so investigated, and one is led to wonder how many other failures which occur are hastily dealt with when a full investigation might be more beneficial to the profession as a whole. One hears from time to time of failures either of materials or techniques—and these stories may well be either exaggerated or played down, but it would be of enormous benefit if designers and builders alike could be persuaded to let their colleagues know of such occurrences, so that the failures could be avoided and the remedial measures taken be known in advance and so avoid the frustration which such occurrences cause to clients. We repeat what we said on this subject on July 25, 1958: 'What is needed now is a firm collective defence on the part of the architectural profession and the builders' organisations, insisting on standards of building and cost which provide a fair chance to a designer to achieve and the builder to construct soundly.'

Notes of the Week

The Commonwealth in Kensington

THE new home for the Commonwealth Institute, at present housed in the Collcutt building in South Kensington, is to be built on a 3½-acre site to the north of Kensington High-street, at the southern end of Holland Park. The new building will be dominated by a complicated roof made up, so we are told, of no less than five hyperbolic paraboloids. These form a tent-like shape to be carried out in mesh of precast, post-tensioned concrete ribs, which will be decked with woodwool slabs and covered with copper. This complex arrangement will roof a 190 ft. x 190 ft. exhibition hall on only four supports. Unfortunately the more conventional office block which is also part of the scheme is not quite self-effacing enough, and the junction between the two buildings has presented a very tricky problem which is not absolutely solved.

British Architecture Defended

BRITAIN'S achievements in the field of contemporary architecture, so often derided by the critics, are ably defended by Mr. Howard V. Lobb in the May issue of that well-produced quarterly, *Impulse*. Mr. Lobb points out that a nation can expend its capital and building capacity on a few large, expensive or sensational buildings or employ them in the main to raise the living and working conditions of the ordinary man and woman.

We have chosen the latter course, and the writer holds that in much of our housing, our New Towns and our schools, we have set an example to the rest of the world; we have also done well in the design of our new factories. He regrets that British architects have had little chance to show what they can do in the higher flights of architecture, though when the opportunities have arisen they have been accepted; he cites as evidence the South Bank Exhibition, Coventry Cathedral and the British Pavilion at the Brussels Exhibition.

He holds that what is lacking today is an imaginative clientele, and admits that many of the new office buildings are 'dully pedestrian.' The fault, he concludes, 'lies with the boards of the financial concerns which commission them . . . it is their scalps that the critics should hunt.'

Wedgwood Bicentenary Exhibition

AN EXHIBITION to mark the bicentenary of the foundation of the Wedgwood concern is being held at the Victoria and Albert Museum until August 30. The firm, started by Josiah Wedgwood in 1759, has become not only the most famous ceramic manufacturing company in England, but also the foundation of a national industry of great importance.

The exhibition contains some 260 pieces produced in the 18th and 19th centuries, and about 60 from the contemporary range of the Wedgwood factory. These include three specimens of the famous Portland Vase copies, and trial pieces for the renowned creamware service made for the Empress Catherine II of Russia. Her Majesty the Queen has graciously consented to lend eight pieces from her collection, mostly from services made to Royal order. Other outstanding pieces have been lent by the Lady Lever Art Gallery, the Nottingham Castle Museum, the Hanley Museum and Art Gallery, and other institutions, as well as by private collectors.

Successful Co-operative Effort

THE IMAGINATIVE refurbishing of Magdalen-street, Norwich, under the inspiration of the Civic Trust has been so successful that a similar project is being considered at Croydon. The Norwich city architect, Mr. D. E. Percival, ARIBA, speaking at the RIBA Symposium, 'The Living Town,' on May 22 (*The Builder*, May 29), used the Magdalen-street scheme to illustrate that co-operation between private owners and local authority was perfectly possible.

At Norwich the work comprised the redecoration and general improvement of the exterior of premises to an agreed plan. The Civic Trust has informed Croydon council that it is prepared to co-operate in a similar venture at Croydon by appointing a consultant architect to draw up a comprehensive scheme. Local architects approved by the corporation, who would accept appointment from individual owners, would work in conformity with the master scheme. The corporation's financial liability would be limited to the cost of improving the appearance of premises or street fixtures for which they were responsible.

The Classical Country House

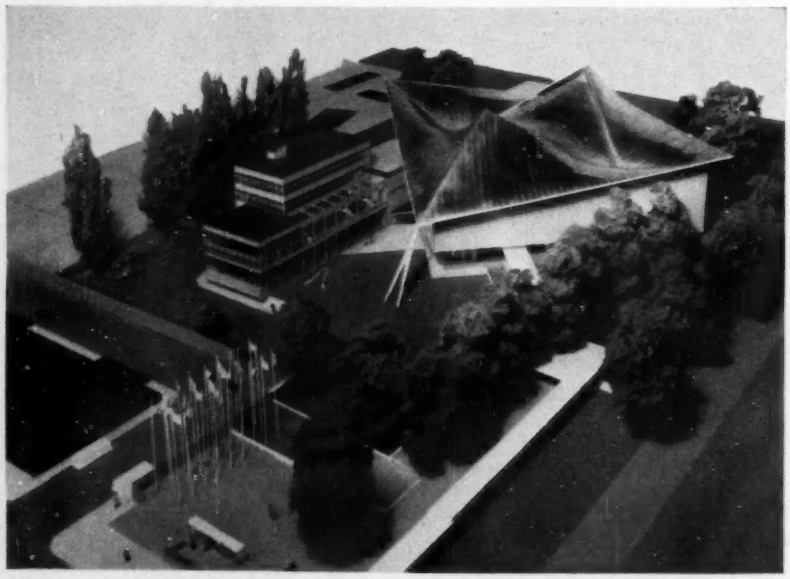
SIR JOHN SUMMERSON'S three Cantor Lectures on 'The Classical Country House in 18th-Century England,' delivered in March at the Royal Society of Arts, are published with a selection of illustrations in the July number of the RSA Journal. Under the titles Patronage and Performance, 1710-40, Progress and Decline of the Greater House, and The Idea of the Villa, Sir John traces the main course of developments, pointing out that while the work done on the eighteenth-century country house is substantial, as much study needs to be given to patronage and the economics of patronage as has been given to architectural performance.

CPRE and the Peak District

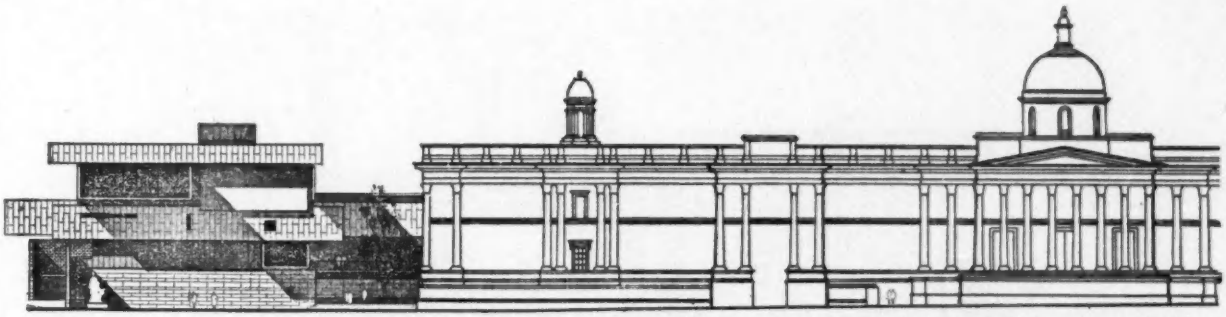
MANY threatened disfigurements of the countryside, some of them successfully resisted, are recorded in the annual report of the CPRE Sheffield and Peak District Branch for 1959. The Branch is now about to enter on two further engagements, one to prevent the desecration of the Manifold Valley by an unwanted motor road, and the other to oppose the first major attack on the Green Belt—at Middlewood in the Don Valley—since the Sheffield Development Plan was approved. The report is issued from 22 Endcliffe-crescent, Sheffield, 10.

New Churches Research Group

As a result of the meeting in June, 1957, of a group of clergy and architects, which included Anglicans, Roman Catholics and Orthodox, to consider what could be done to focus the present widespread concern at the state of church architecture in this country, a New Churches Research Group has been formed. Its first production is an excellent 'Guide to New French Churches,' compiled by the Rev. Peter Hammond. Copies of this, together with particulars of the Group and conditions of membership, may be obtained on application to the hon. secretary, 10a Dacre-street, London, SW1.



NEW COMMONWEALTH INSTITUTE.—To replace the present Institute, a new building is proposed (see note) for a site in Holland Park. The architects are Robert Matthew & Johnson-Marshall



Front elevation of the winning design showing the proposed extension into the available site at the left of the National Gallery. Barrie Dewhurst, AADip(Hons), ARIBA, Architect

EXTENSION TO THE NATIONAL GALLERY

Winning Design in the 'Sunday Times' Competition

As announced in *The Builder* of June 12, when the award was given in full, the winning design in the *Sunday Times* competition for the development of the island site to the north-west of Trafalgar-square (including the Hampton site) as a future extension of the National Gallery, was submitted by Mr. Barrie Dewhurst, AADip(Hons), ARIBA, of Cambridge 38, Massachusetts, and Laburnum Cottage, Dittisham, Devon. This design (No. 158) is here illustrated in greater detail. The assessors in the competition were Sir William Holford, Mr. Peter Chamberlin and Mr. William Allen, and the following extracts are taken from their reports:

Assessors' Comments on Winning Design

Over 1,400 architects and architectural students registered for the competition, and 252 sent in designs. The assessors, as they say in their report, were looking for an idea 'which is, and will be, most central to the whole intention of extending the National Galleries, that is to say the creation of a new series of spaces for exhibiting the national collections, in which there would be—in the words of the programme—"good visual conditions and generally enjoyable circumstances for the views"; a place, in other words, with a sense of occasion, complementary to the existing building, and not just a repetition of it. One design (No. 158) does precisely this. Its weaknesses, such as control and security, the size and planning of the service lift and the stacking of cars in the basement, could be strengthened without spoiling the main scheme. Its virtues are that visitors are led through a series of interesting and differently proportioned galleries, rising gradually, on the pattern of a squared spiral, from the street to the level where Gallery VIII leads into Gallery XXV of the existing building, while carefully placed staircases allow the short-circuiting of this route. The arrangement is therefore extremely effective as well as flexible.' This design is estimated to cost £431,258 for 28,054 sq. ft. of galleries display and offices, and 46,976 sq. ft. for workshops, storage, parking, etc.

Interior Design

In the second part of their report, the assessors say: One of the most difficult problems that competitors faced was an internal one. The amount of accommodation called for made a multi-storey solution necessary, and the fact that part of the gallery area was to be top-lit was an influence pulling all the galleries towards the top. The problem was then to get from the entry level up to the galleries in a satisfactory way.

Lifts, escalators and ramps, as well as stairs, were tried. Mechanical methods seem over-elaborate as the basis of a solution in this particular case, and were not convincingly used. Ramps and stairs were proposed in successive arrays which would be tiring and discouraging. One way to success lay in progression by easy stages, each with its own interest, and each rewarded by something to see or do at that level.

Of this type of approach the design placed first is a model. Each change of level upward or down is in some way unique. Each new level offers displays in a gallery which is unique. Interesting inward or outward views would be seen frequently on the journey, and the route itself would be clear, easy and coherent. Besides this the visitor would be aware of the whole building as architecture, and a gallery Director would be given exceptional opportunities for display. These are important factors and this design is a valuable contribution to gallery thought.

Most competitors saw the advantage of connecting the old and new galleries, and the designs which explored complete separation did not carry conviction that there was a good reason for going against the obvious, unless the new building were destined for the Portrait Gallery only.

Restaurant facilities were occasionally well thought-out, but more often seemed to be reduced to the status of mere necessity. It is part of the modern approach to gallery usage to widen it to a wholly pleasurable experience and to this a restaurant—preferably with a good view—is important. The local example of the Festival Hall is convincing.

Competitors were required to provide part of the gallery space with overhead daylight, and could also offer some with side-lighting or without any daylight. All are usual in modern gallery design.

A few designs, among which was that placed first, permitted light to go down through several levels in ways which would be interesting and could be successful, although all such treatments would depend for their success on the supplementary use of skilful permanent artificial light in some areas.

Siting

Several major decisions faced competitors regarding the general layout and approach to the new extension to the National Gallery.

A good solution, put forward in a number of proposals, was to provide a broad pedestrian way linking Leicester-square with Trafalgar-square running between the west end of the National Gallery and new buildings as proposed on the Hampton site; from this pedestrian way, access to the new extension was easily arranged.

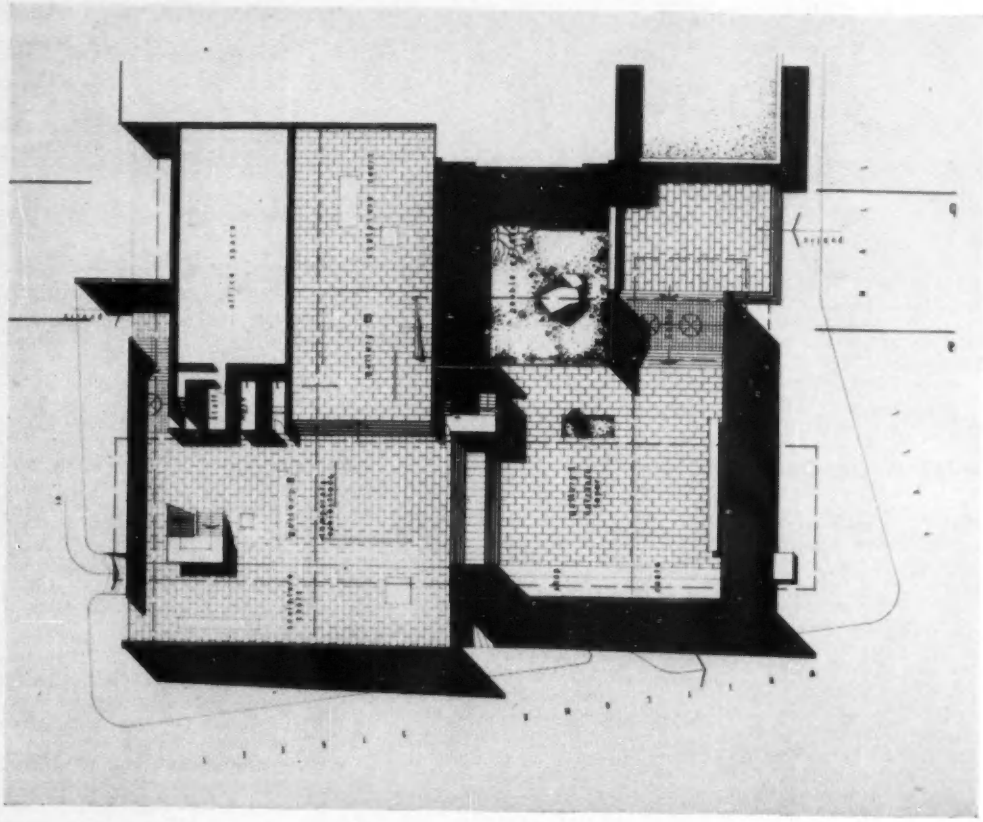
It seemed to us important that the form of the new buildings proposed for the Hampton site should contrast—but not conflict—with the existing National Gallery. Pall Mall enters Trafalgar Square not parallel with, but obliquely to, its north side; and this gives an opportunity to let the National Gallery, with part of the return elevation to the west, express itself as a complete design without being muffled by the new building.

Structure

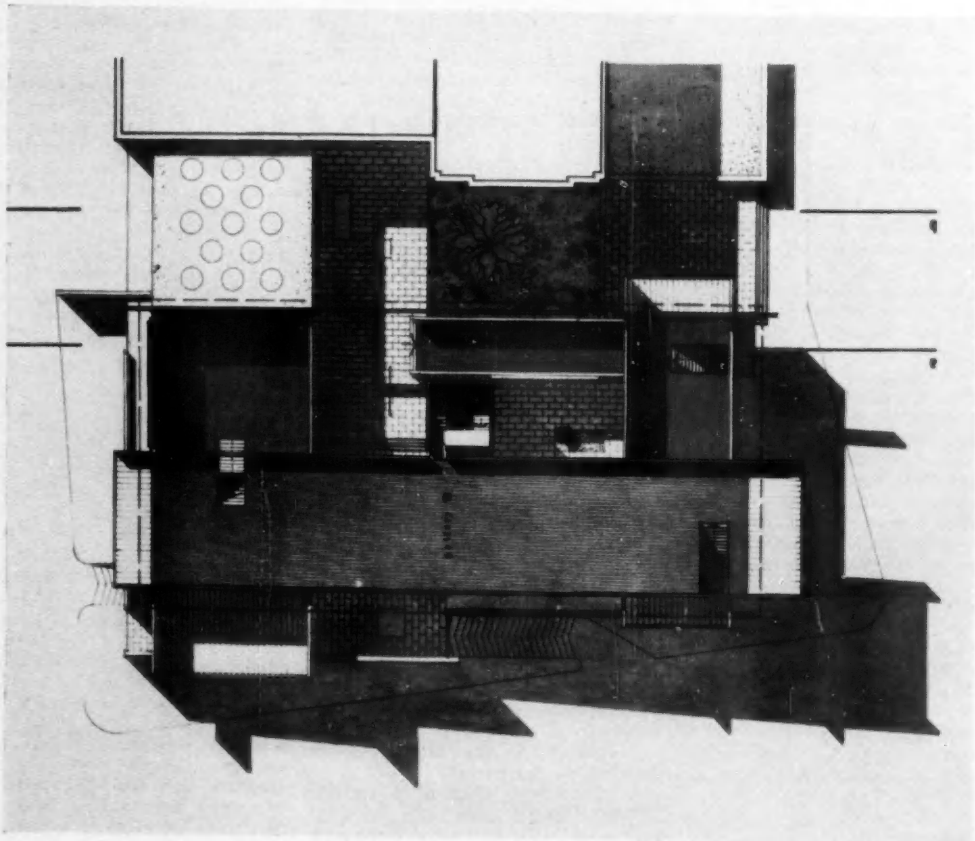
A number of the solutions were structurally ambitious and it is most doubtful if some of these could be built as designed except at formidable cost. As this was a competition of ideas, structural proposals were looked at from the point of view of general logic and capability, rather than as working drawings. Average costs per square foot were estimated at many points between £4 and £11, the reasonable mean for work above ground being £7 10s.

It was clear that the adoption of a plan in the near future would have the advantage of allowing car parking space underground, or below a terrace on the Hampton site, to be constructed immediately.

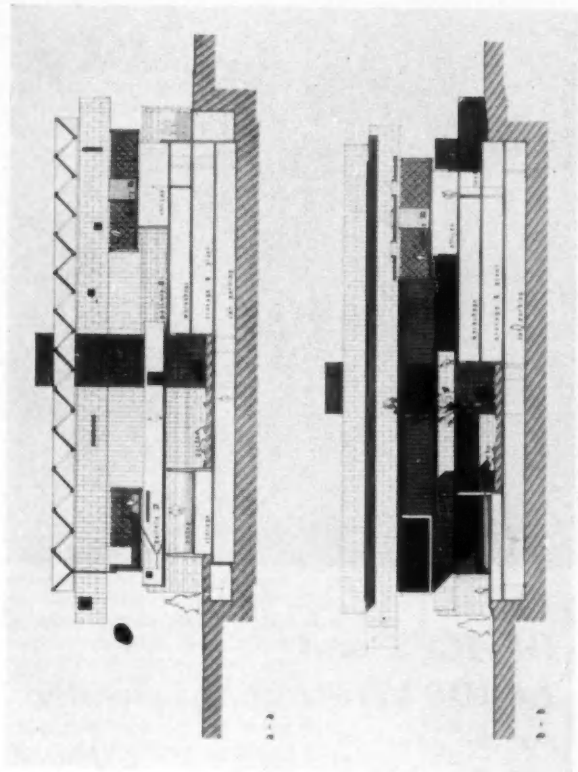
The competition designs as a whole explore an enormously wide field of possibilities for the development of the Hampton site, and provide a valuable first study of eventual construction.



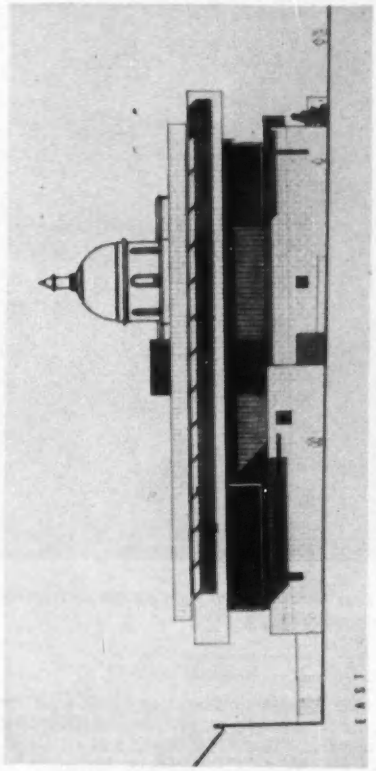
PLAN at +55·00′



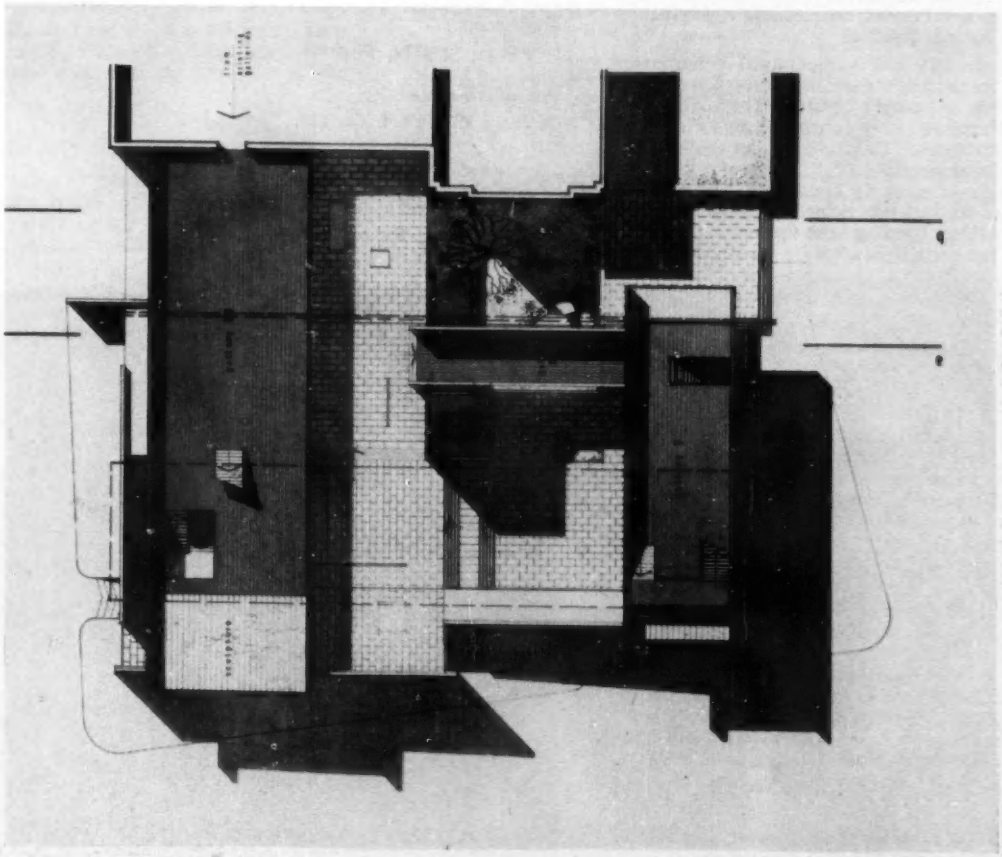
PLAN at +80·00′



Sectional views

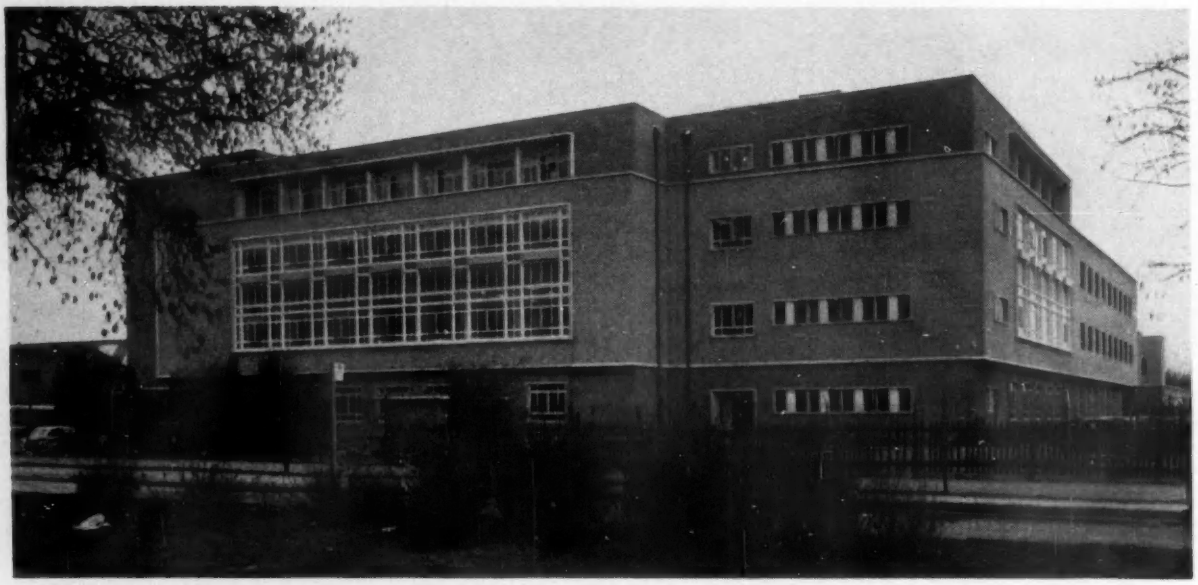


Eastern elevation



PLAN at +60·00′

EXTENSION TO THE NATIONAL GALLERY: Winning design by Barrie Dewhurst, AADip(Hons), ARIBA



A general view from the west showing the multi-storey office accommodation

OFFICES and LABORATORIES at Leicester for the AEI Lamp and Lighting Co. Ltd.

Architect:
S. PENN SMITH, FRIBA

General Contractors:
GEORGE WIMPEY & Co. Ltd.

THE building comprises a single-storey north light area of 36,000 sq. ft. enclosed by an 'L' shaped office block on the south and west. The office block has an area of 68,500 sq. ft. on four-, three- and two-floor blocks.

The north light area is connected to the west office block by a low level link, now housing departments which require the minimum of natural lighting.

The north light factory area is constructed with exposed steel stanchions, frames and trusses, supporting felt-covered aluminium decking and patent glazing. The walls are in brickwork and there is a heavy concrete floor to take any arrangement of machines. The triple loading dock on the north side of the factory area has 18 ft. clear height, arranged to give draught-proof working conditions and a heavy 5-ton hoist is provided at this point. A 2-ton travelling gantry is also provided, running from the loading docks to the other side of the north light area. A new service bridge now carries services from the existing factory block to the north across the road to the north light area.

The services provided include: two high pressure heating mains; six electrical mains; coal gas; hydrogen; oxygen; nitrogen; compressed air; fine vacuum; rough vacuum; low pressure air; high pressure oxygen; high pressure hydrogen and two recirculation water pipes.

Within the north light factory area, these services are carried at truss level. Heating to this area is catered for by 12 down-flow heater units, within the roof space. The metal north light roof is designed to be structurally separate from the surrounding brickwork to avoid thermal movement cracking.

The office block has a main framework of concrete encased steelwork, on a basic grid of 30 ft. by 12 ft. Floors are generally linoleum tiles on screed supported by pre-cast concrete beams. Terrazzo tiles are used for all toilets and entrance halls. The external walls are faced with brickwork with internal skins of breeze blocks with plaster finish and the roof is asphalt with vermiculite insulation screed. Ceilings to toilets are all plastered and perforated metal panels in 2 ft. by 1 ft. trays are used generally as suspended ceilings to all offices and corridors.

Due to the size and shape of the office block the building is divided by four vertical expansion joints.

The office building is designed to conceal all services. The telephones and electrical power cables are concealed

A night view of the south elevation of the office block

in metal floor trunking, in screed laid out to give access points every 6 ft. square.

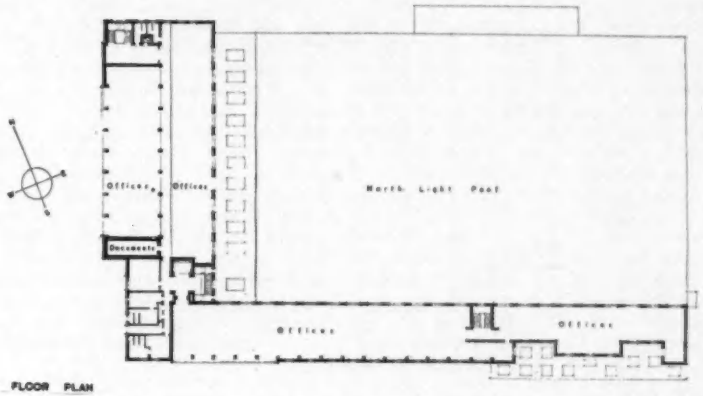
All the heating to the offices is by low pressure hot water pipe coils placed horizontally above the metal ceilings. The insulation placed over the heating coils acts both as a thermal and acoustic absorbent.

Many new ideas were evolved for the lighting of the building. Basically, all offices have two rows of metal wiring trunking forming part of the metal ceiling running the full 30 ft. length of every 12 ft. bay. These runs of trunking carry both the wiring and light fittings. In addition, the centre 2 ft. run of each bay has been left clear of heating pipes to allow for recessed lighting fittings if required. Full advantage has been taken of this flexible system to give a variety of lighting.

Two large vertical service ducts are provided in the south-west corner block. One carries all heating and water mains, the other contains vertical circulation of electrical and telephone systems. The latter also houses most of the distribution boards, etc. From this vertical ducting the services radiate horizontally north and east, above the false corridor ceilings. For example, the ground floor corridor ceiling of the south block contains two low pressure heating mains, one air vent pipe, one heating-cold water feed, one hot water service-cold water feed, one water supply pipe, one hydrant main, two electrical mains and a lighting wiring duct.

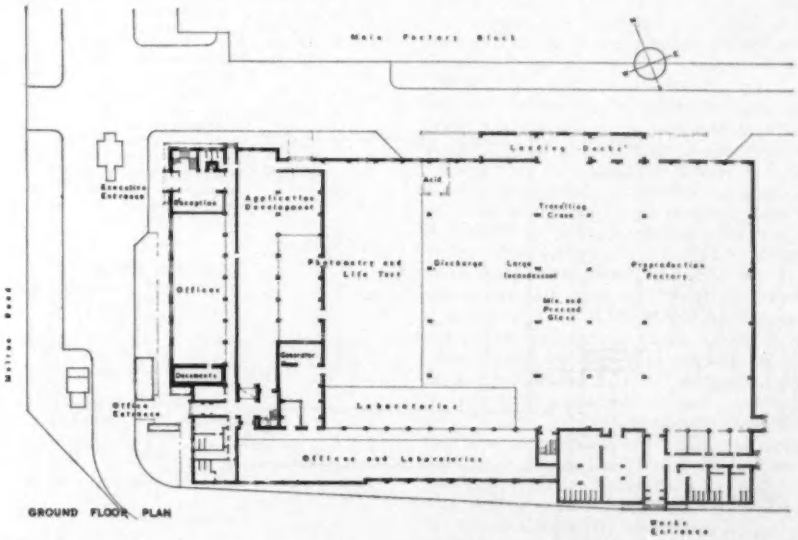
The laboratory services consist of coal gas, hydrogen, oxygen, nitrogen, fine and rough vacuum, low pressure air, compressed air and recirculation waters.

A standard metal office partitioning on a 3 ft. module is used throughout to form individual offices, giving flexibility to the layout.



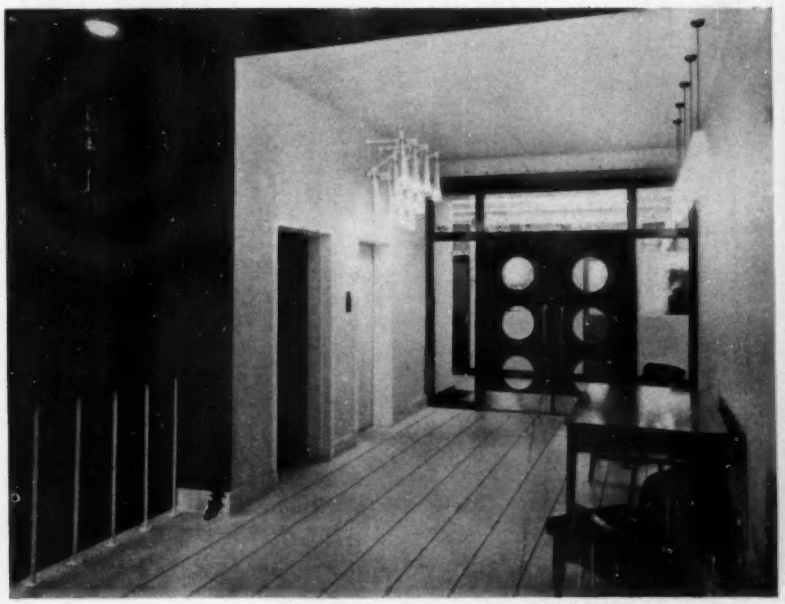
FIRST FLOOR PLAN

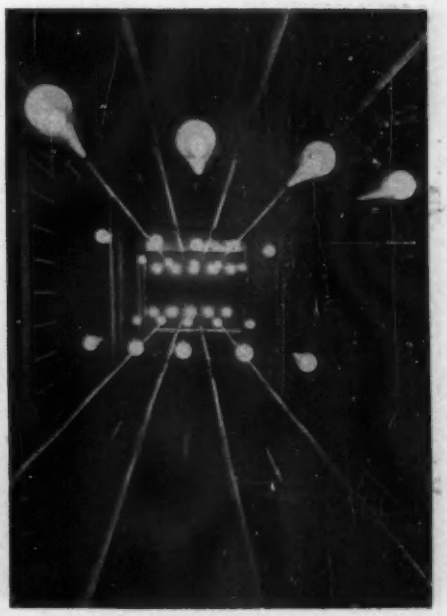
Offices and Laboratories at Leicester

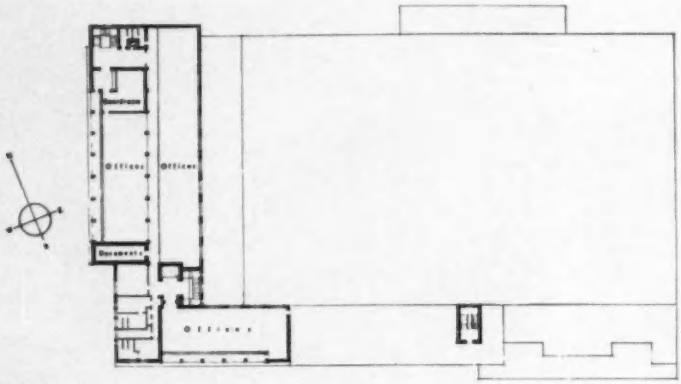


GROUND FLOOR PLAN

below : *The main entrance hall from the bottom of the executives' staircase*
below right : *A vertical view of the staircase lighting*



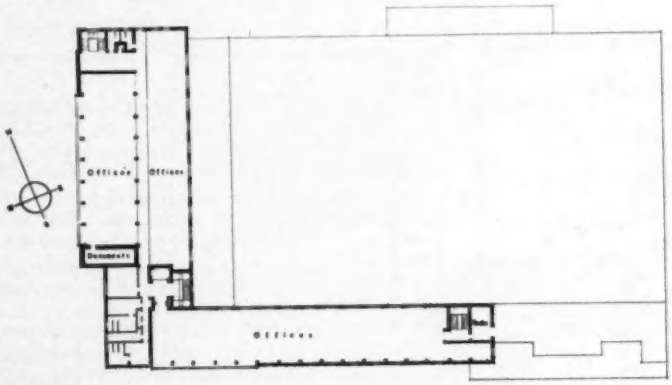




THIRD FLOOR PLAN

Offices and Laboratories at Leicester

FLOOR PLANS Scale 1in=66ft

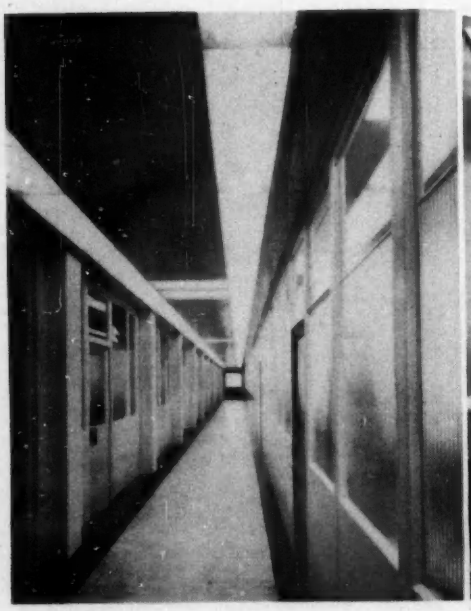


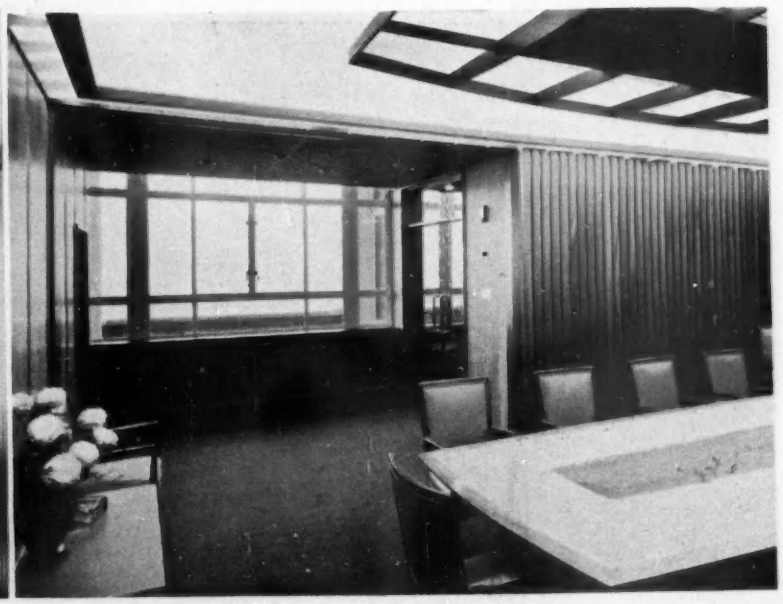
SECOND FLOOR PLAN

Sub-contractors and Suppliers :

Air inlets and drying apparatus, Chatwood & Milner, Ltd.; *two-ton electric travelling crane*, Herbert Morris, Ltd.; *folding doors*, Bolton Gate Co., Ltd.; *sanitary fittings*, Broad & Co., Ltd.; *wc cubicles*, Flexo Plywood Industries, Ltd.; *ironmongery*, Corts, Ltd.; *hose reels and fire extinguishers*, Pyrene, Ltd.; *under floor trunking*, Walsall Conduits, Ltd.; *incinerators*, Hygienette Manufacturing Co., Ltd.; *strong room doors*, Hobbs Hart & Co., Ltd.; *soap dispensers*, Bersel Manufacturing Co., Ltd.; *electric clocks*, I.B.M. United Kingdom, Ltd.; *glass doors*, Pilkington Bros., Ltd.; *towel dispensers*, Kimberley Clark, Ltd.; *lockers*, Finney, Smiley & Co., Ltd.; *commons*, London Brick Co., Ltd., and Flettons, Ltd.; *cement*, Rugby Portland Cement Co., Ltd.; '*Bedford Grey*' *facings*, Proctor & Lavender, Ltd.; '*Golden Brown*', Coalville Brick Co., Ltd.; '*Leicester Plastic*' *commons*, New Star Brick Co., Ltd.; *engineering bricks*, J. S. Millington & Sons, Ltd.; *steel reinforcement*, BRC Co., Ltd.; *drain pipes and fittings*, National Coal Board; *ready mixed concrete*, Cliffe Hill Granite Co., Ltd.; *sand*, Hoveringham Gravel Co., Ltd., and Wettern Bros., Ltd.; *gravel*, Hoveringham Gravel Co., Ltd.; *hardcore*, S. W. Spencer, Ltd.; *paint*, The Walpamur Co., Ltd.; *carcassing timber*, Walter Wootton, Ltd.; '*Carlite*' *plaster*, The Gotham Co., Ltd.; '*Hardwall*' *plaster*, & '*Statite*', J. C. Staton & Co., Ltd.; *joinery timber*, Ashworth Kirk, Ltd.; *partition blocks*, Kingbury Concrete Co., Ltd.; *structural steelwork*, Dorman Long (Bridge & Engineering), Ltd.; *roof decking and covering*, D. Anderson & Sons, Ltd.; *steelwork*, S. Russell & Sons, Ltd.; *terrazzo and granolithic pavings*, *stonework*, *pre-cast roof beams*, John Ellis & Sons, Ltd.; *metal windows*, Mellowes & Co., Ltd.; *lantern lights*, Williams & Williams, Ltd.; *electrical installation*, Lee Beesley & Co., Ltd.; *heating installation*, Arthur Heaton & Co., Ltd.; *patent glazing*, W. H. Heywood & Co., Ltd.; *faience tiling*, Hathenware, Ltd.; *painting*, Industrial and Decorative Arts Co., Ltd.; *plumbing and glazing*, Grocock & Day, Ltd.; *wall tiling*, Carter & Co. (London), Ltd.; *lino*, Percy Crampton; *metal partitions*, Roneo, Ltd.; *asphalt roofing and flooring*, Flexi-Mastic Roofs and Asphalte, Ltd.; *furniture*, *carpets and curtains*, Beresford & Hicks; *plastering*, F. C. Measom, Ltd.; *lifts*, Marryat & Scott, Ltd.; *acoustic tile ceilings*, John Dale, Ltd.; *domelights*, Wm. Frier, Ltd.; *pumping equipment*, The Pulsometer Engineering Co.; *balustrading*, Simmons & Plummer, Ltd.; *asphalt road and paths*, Leicester Asphalte & Tar Paving Co., Ltd.; *acid drains*, Prodorite, Ltd.; *internal telephone equipment*, Siemens Edison Swan, Ltd.; *blinds*, *projection screen*, J. Taylor (Syston), Ltd.; *lightning conductors*, A. W. Elliott & Co., Ltd.

below left : *An executive corridor with lines of light formed by 4 ft. by 1 ft. recessed fittings*
below : *The boardroom on the third floor*





CORRESPONDENCE

Churchill College Competition

To the Editor of *The Builder*

SIR,—Studying the winning design for Churchill College, Cambridge, illustrated in your last issue, I was struck by what may be called the formal informality of its plan. Not so many years ago a great scheme of this kind would almost certainly have been axial and monumental. Since the war we have seen a marked turning away from symmetrical planning, as for example in the layout of the South Bank Exhibition and the design of the St. Paul's Precinct. A new impetus to that trend seems likely to be given by the result of this competition.

In their design the winning architects have planned clusters of square courts more or less informally around a large central area, admirably landscaped, creating a sense of formality without axiality. There appear to be no axes in the strict sense of the term. Is this a weakness? Are the narrow and unobtrusive approaches to the great central area, some of them around right-angled turnings, really adequate? If a layman may be allowed to offer a criticism, may I suggest that what this remarkable design needs to make it completely satisfactory is a dominant entrance, with perhaps a tower in the true University tradition.

LAYMAN.

To the Editor of *The Builder*

SIR,—The review by Mr. Bernard Feilden of the competition for the design of this college and the report of the Assessors reveal a very different attitude from that of the builders of most of the other colleges in Cambridge.

Formerly first consideration was given to the college chapels and in some cases, e.g., King's, these buildings far surpass in excellence the other buildings of their respective colleges. To this day they indicate the importance with which the founders regarded the Christian religion in the whole body of learning and in some cases these did not give their own names to the foundations but names emphasising their belief that the fundamentals of all true knowledge spring from the Christian faith.

The review seems to indicate that a temporary chapel is to be built in Stage 2 but that the permanent building will not be constructed until after Stage 5. It is not clear if the estimated cost of £1,173,250 includes for this building. The site of the chapel is shown on the winning perspective as a vacant area.

The report makes no mention of the chapel in any one of the four designs.

The college is being built primarily for the pursuit of scientific studies but I suggest that if we, as a nation, separate science from religion we are rushing headlong to disaster.

ALAN B. WOOD.

Caterham, Surrey.

The Future of Quantity Surveying

To the Editor of *The Builder*.

SIR,—I was very interested in Mr. L. A. Dix's letter on the subject of working-up which appeared in your issue of January 16 last. After nearly 30 years in the profession I still like the working-up side as he appears to do also.

Some of us have had the advantage of being thoroughly trained in this section of the work in well-established firms whose principals were of the 'old school.' It was not uncommon for a junior to spend up to three years on squaring dimensions, casting, reducing, etc., and then many more years from junior worker-up to senior and then to chief worker-up. The feeling in my young days was that one had to have a beard before being allowed to take off dimensions. This usually meant that a chief worker-up left his firm for another if he wished to become a taker-off, but his new firm, as a rule, wanted to see a sample of his billing before employing him.

Item		*Continued*	£ s. d.
	Skirtings and rails (continued)		
101	*Wrought Damanu, selected for polishing*		
102	1″×3″ thrice splayed skirting, screwed	91 F.R.	
103	1″×3″ ditto, plugged and screwed ...	790 F.R.	
104	Extra for mitres ...	No. 20	
105	Ditto, returned ends	No. 10	
106	1″×2″ rebated and chamfered picture rail, screwed ...	57 F.R.	
107	1″×2″ ditto, plugged and screwed ...	554 F.R.	
108	Extra for mitres ...	No. 7	
109	Ditto, returned ends	No. 20	
110	Notchings in bottom of skirting over expansion joint cover strips ...	No. 10	
	PARTITIONS, Etc.		
111	Note:—The sawn framing covered with hardboard shall be of equal width and in no case less than 2¾″		- - -
112	**Type "A" Partitions** *Sawn and framed softwood*		
113	2″×3″ Studs... ...	999 F.R.	
114	2″ × 3″ Noggings (measured over studs)	400 F.R.	
115	2″×3″ ditto, to take fittings	26 F.R.	
116	2″×3″ top plate, plugged & screwed	150 F.R.	
117	2″×3″ sole plate, ditto	124 F.R.	
118	2″×3″ bracketting to beams, ditto ...	38 F.R.	
119	2″×3″ transome ...	11 F.R.	
120	3″×3″ studs ...	40 F.R.	
121	3″×3″ ditto, splayed	20 F.R.	
122	Shaped rebate in plates for expansion joint cover strips	26 F.R.	
123	Plug and screw 2″ members not exceeding 3″ wide ...	75 F.R.	
124	¼″ hardboard, chamfered all edges and pinned	300 Y.S.	
125	Labour to wrought face to softwood	25 F.S.	
126	1″×3″ wrought and framed softwood battens	66 F.R.	
127	*Wrought Dakua*		
128	1″×3″ cover fillet ...	300 F.R.	
129	1″×3″ ditto, splayed	75 F.R.	
130	1″×3″ skirting, as Item No. 102 above, to partitions and fittings on same	99 F.R.	
		£ *Continued*	

In my own case, I had to have a row with one of the partners before being permitted to take off and in the first instance I had to do this in my own time. But I have never regretted the training I had—it has stood me in good stead preparing contracts for many countries—and I am grateful to my tutors.

I agree with all Mr. Dix has written and I can't help thinking that the fault lies with the firms both in the training of juniors and also for employing men of the ability outlined by him. In the old days, when the first portion of the dimensions could be released, the taker-off called the worker-up in charge into his office and the whole project was discussed. The latter had access to the drawings and could refer to them if the dimensions were not clear to him, although I must confess I used to do this whilst he was at lunch to make sure of my ground before approaching him. Takers-off in those days were 'of the gods.' The worker-up was expected to check one series of dimensions against another and it was usually considered to be his fault if items were missed. A clean draft bill had to be presented to one of the partners for approval to print.

It does not matter how good the takers-off are, their efforts can be ruined by poor billing. It is this document which is presented in court or to an arbitrator in the event of disputes, not the dimension sheets. In reading the correspondence which has appeared in your newspaper from time to time on the subject of bills of quantities, the thought which often crosses my mind is 'I wonder what their bills are like?' I feel that there can be no such thing as a standard or sterotype bill: its form is likely to vary with each job and the principle of 'what did we do last time' should be used with caution. It may interest you to see the latest method adopted by myself to reduce the number of pages in a bill, to get the maximum amount of space for descriptions and to have the quantities near to the rate, and I enclose a specimen sheet (reproduced on this page).

A well thought out bill with the minimum of words adequately to convey meanings, without ambiguity and items likely to create precedents and carefully set out and stencilled is a work of art. I am sure that such documents must influence estimators when they are pricing them and that a slipshod bill attracts pricing in a similar manner.

The biggest compliment that can be paid to a biller is praise from an unsuccessful tenderer.

Perhaps one of these days we shall see an exhibition of bills of quantities.

EDWARD SMITH [FRICS].

c/o Public Works Department,
Government Buildings,
Suva, Fiji.

A New Exhibition

The first National Cleaning and Maintenance and Floor Trades Exhibition and Convention will be run at the Old Royal Horticultural Hall, Westminster, London, SW1, from February 1 to 5, 1960. Exhibits will include cleaning materials, flooring materials of all kinds, floor coverings, cleaning machinery and accessories, disinfectants, dressings and adhesives. The exhibition is being organised by Mr. W. R. Kern, MIED, FRSA, of Contemporary Exhibitions Ltd.

PRODUCTIVITY AND PRICES

'The Builder' Quarterly Analysis of Trends

Specially prepared for 'The Builder' by Professor C. F. Carter, Stanley Jevons Professor of Political Economy elect, University of Manchester, and a former member of the Girdwood Committee on the Cost of Housing, from statistics kindly supplied by the Ministry of Works (Statistical branch).

THE printing dispute has meant that the statistics here presented are even further than usual from topicality; but they are worth putting on record, for they reveal a number of interesting features. The output figures for the first quarter of 1959 are rather more provisional than usual, the date of the Whitsun holiday having made the collection of the returns difficult; and next quarter some revisions of earlier figures may be needed, because of a decision to include certain constructional engineering within the boundaries of the building industry.

Looking first at the price indices, table B includes for comparison a new price index for the output of British manufacturing industry sold on the home market. Since last autumn this index has shown signs of a slight increase in the general level of the prices of industrial output; but it is now confirmed that building prices (which reached their peak at the end of 1957) fell again in the first quarter of 1959. The output price index for housing seems to have fallen by about three per cent in a year and there is no reason to expect that the second quarter's figures will show any rise.

The index of retail prices has recently shown a slight fall, and has registered no substantial movement for a year. There has thus been a small improvement in the purchasing power of building wages, but the chart shows that the last big change in this purchasing power was in 1956, when the two wage increases caused a considerable increase in the costs (and output prices) of the industry. It would be possible to make quite a good case for a further wage increase, on the grounds that labour should share in the fruits of rising productivity, and employers should consider themselves fortunate that no such case has yet been sustained.

The prices of building materials have shown no great change on balance, though some tendency for the indices to rise could be noted in the spring. Such general stability seems, to a post-war generation, almost too good to be true; but there is no immediate indication of change.

The indices for net output and materials input for the whole industry suggest that the higher levels of productivity, reached at the end of 1958, have been held. This, however, is an average result based on opposing trends in different parts of the industry.

TABLE A.—OUTPUT OF THE BUILDING AND CIVIL ENGINEERING INDUSTRY IN GREAT BRITAIN (excluding direct work of Public Authorities)

	Actual value of gross output	Values at 1955 average prices			Indices, 1955 (average) = 100 (constant prices)		
		Gross output	Net output	Input of materials	Gross output	Materials input per man-month	Net output per man-month
	£mn.	£mn.	£mn.	£mn.			
TABLE 1.—*New housing work*							
1956*	142	135	60	75	99	105	103
1957*	138	130	58	72	95	109	109
1958 I ...	125	117	52	65	85	111	108
II ...	132	122	53	69	89	117	110
III ...	131	122	54	68	89	113	111
IV ...	130	123	54	69	90	119	114
1959 I ...	**132**	**127**	**55**	**72**	**92**	**125**	**118**
TABLE 2.—*New non-housing work*							
1956*	192	184	87	97	119	106	107
1957*	208	192	91	101	123	106	108
1958 I ...	210	190	90	100	122	106	107
II ...	221	196	92	104	127	108	107
III ...	228	202	94	108	130	111	108
IV ...	228	206	95	111	133	115	111
1959 I ...	**211**	**191**	**90**	**101**	**123**	**109**	**110**
TABLE 3.—*Repair and maintenance work*							
1956*	100	93	63	30	101	107	101
1957*	101	90	62	28	98	105	100
1958 I ...	99	89	60	29	97	110	101
II ...	104	90	62	28	98	104	100
III ...	105	90	63	27	99	101	100
IV ...	107	94	64	30	102	110	101
1959 I ...	**105**	**92**	**62**	**30**	**100**	**113**	**101**
TABLE 4.—*All building and civil engineering work*							
1956*	434	412	211	201	107	107	104
1957*	447	412	212	200	107	108	106
1958 I ...	434	396	202	194	103	109	106
II ...	457	408	207	201	106	110	106
III ...	464	414	211	203	108	110	107
IV ...	465	423	213	210	110	115	109
1959 I ...	**448**	**410**	**207**	**203**	**107**	**115**	**109**

TABLE B.—PRICE COMPARISON

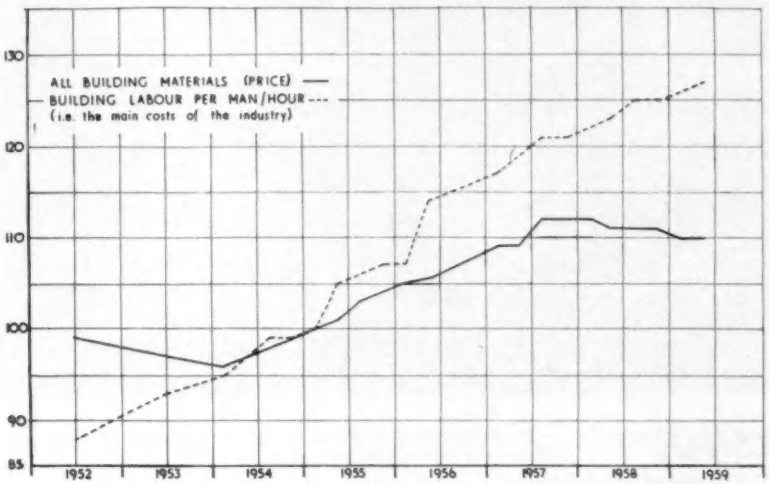
Index numbers (1955 First Quarter = 100) of the prices of :

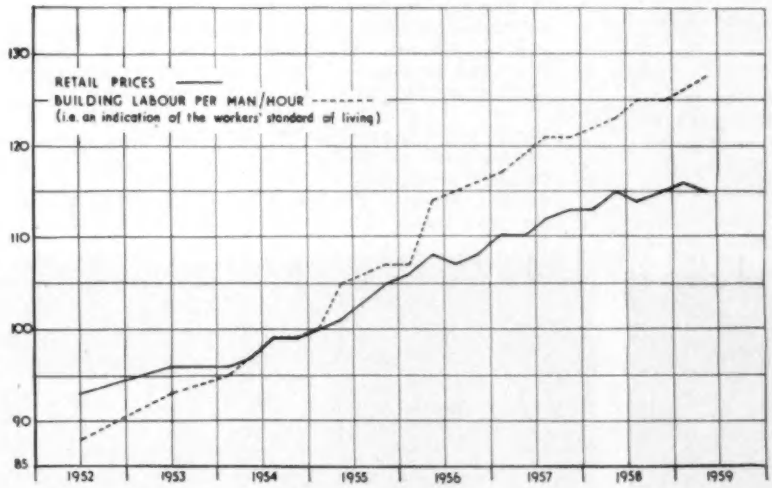
	All building materials	Materials for housing	Building labour per man-hour	Output price indices : All building	Output price indices : Housing work	Output price indices : New non-housing work	Manufactures output price index	Retail prices
1953*...	97	96	93	97	97	97	**99**	96
1954*...	97	97	97	97	97	98	**100**	98
1955*...	102	102	104	103	103	103	**101**	102
1956*...	107	106	113	108	108	107	**106**	107
1957 I	109	108	117	110	108	109	**109**	110
II	109	108	119	111	108	111	**109**	110
III	112	110	121	113	110	113	**109**	112
IV	112	110	121	114	111	114	**110**	113
1958 I	112	109	122	114	111	114	**110**	113
II	111	109	123	114	110	114	**110**	115
III	111	108	125	114	110	115	**110**	114
IV	111	108	125	114	109	114	**110**	115
1959 I	110	**108**	**126**	**113**	**108**	**113**	**110**	116
II†	**110**	**108**	**127**	**113**	**108**	**113**	**111**	**115**

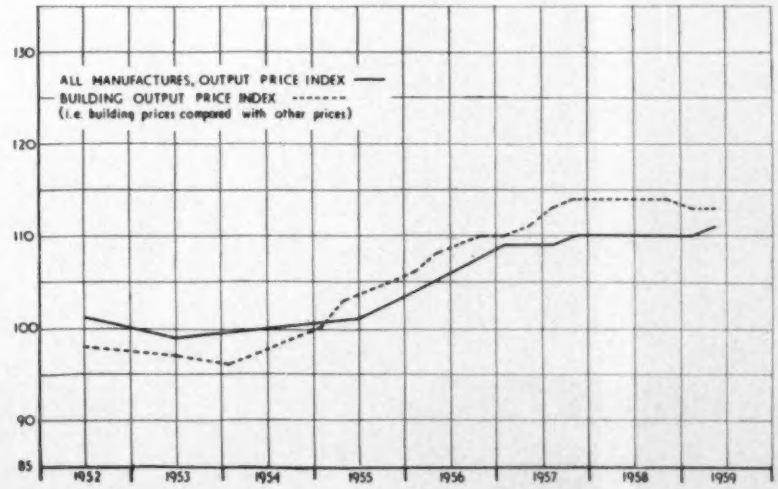
* Quarterly average. † Not Ministry of Works estimates.

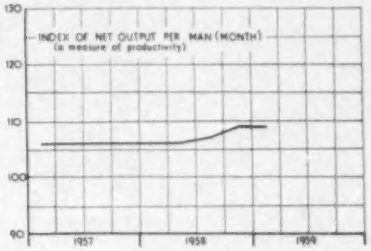
In both tables figures in **bold type** have been changed or added since last quarter.

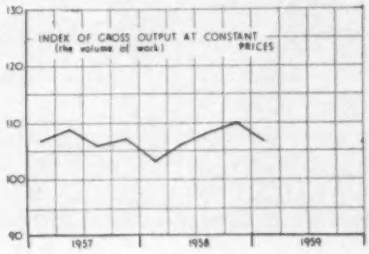
The volume of output in housebuilding actually rose substantially in the first quarter of the year, and this rise was achieved without much change in the labour force, so that the implication is that there may have been quite a sharp rise in productivity. The housebuilding industry, in fact, was well employed, without serious bottlenecks (though one has since developed in bricks), and probably increasingly employed on the kinds of speculative building where productivity can be high because the builder can plan and vary his work without much outside interference.











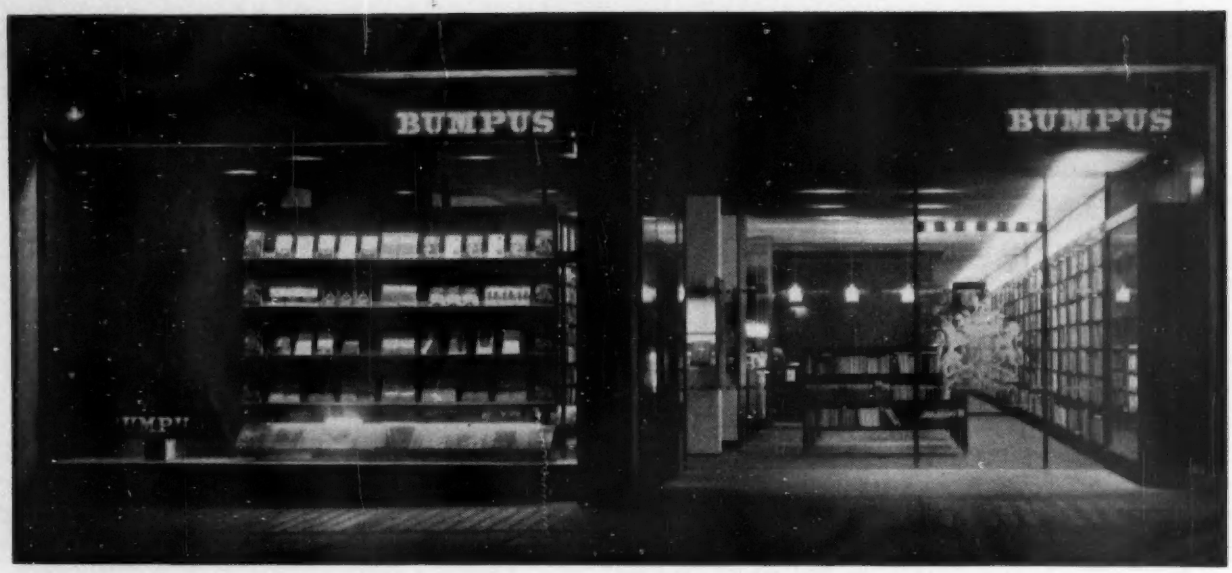
It should be noted that the figures do *not* show that more houses are being turned out by a debasement of quality; they show rising productivity of a kind which should make it possible to build a house of *given* quality at lower cost.

The output covered by the large definition of 'new non-housing work,' on the other hand, fell quite sharply in the first quarter, and it would appear that productivity may have fallen as well. It is impossible to interpret this change without supporting evidence from a quarter less subject to special influences than the first of the year. It is known, of course, that industrial building of certain kinds should by now be falling, but the extent to which this is offset by the public investment, also included in 'new non-housing work,' is uncertain.

Mr. H. J. Venning's chart of building costs was published in *The Builder* for June 12. Comparison with the Ministry of Works figures for non-housing work shows no serious disagreement since 1957; certain statistical puzzles remain for earlier years, but they do not affect the agreement about recent trends.

Northern Ireland Housing Trust

THE FOURTEENTH annual report of the Northern Ireland Housing Trust (12, Hope-st., Belfast, price 2s.) records that contracts for 2,400 houses were placed during the year 1957-58, the total of dwellings now built by the Trust on over 100 sites throughout the Province being 20,000. These are in the form of houses and flats, but for the first time the Trust is to build two blocks of eleven-storey flats—at Cregagh, Belfast. The report is fully informative on all the Trust's activities and is beautifully illustrated, the architectural quality of the work being admirable. The value of the report would have been increased by the inclusion of some layout and floor plans.



BOOKSHOP
in Baker-street, London, W1
for John & Edward Bumpus Ltd

Architect:
DAVID ROCK, ARIBA

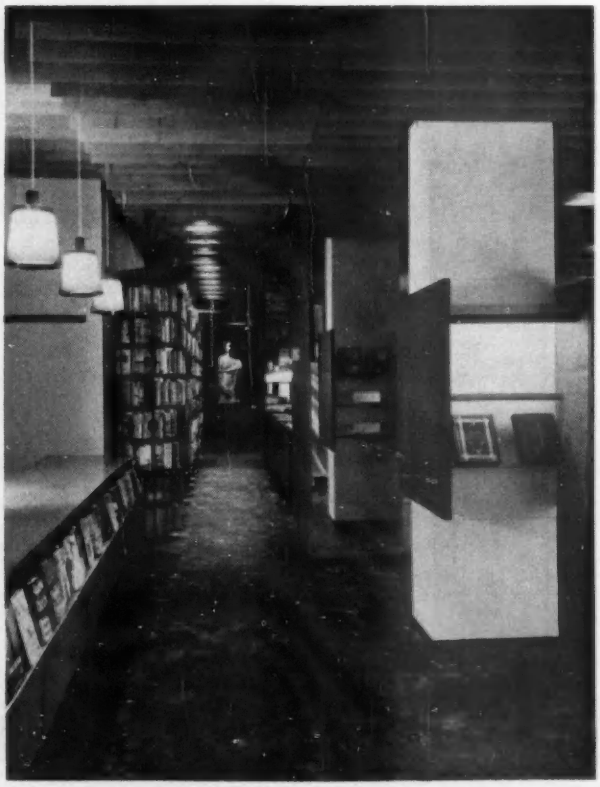
Lighting Consultants:
J. MUSGROVE & N. WATSON, A/ARIBA

Shopfitters:
FRANK W. CLIFFORD, Ltd.

The Baker-street frontage at night. The main door opens from the left of the recessed vestibule

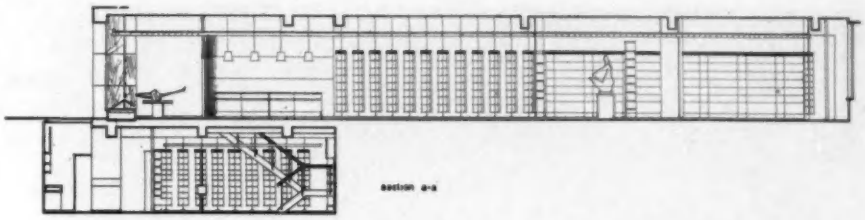
JOHN & EDWARD BUMPUS, LTD. (managing director, Anthony Godwin) are a famous firm established in 1790 whose Oxford Street shop lease has expired. The new bookshop occupies two bays on ground floor and basement of Berk House, an 8-storey office block at the Portman-square end of Baker-street.

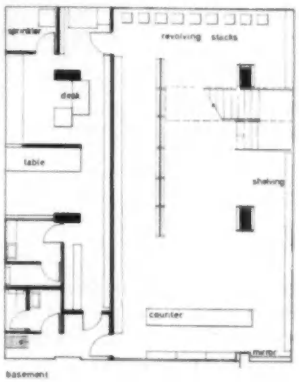
below, left: *Looking from the main doors to the sculpture 'Fallen Bird' by Bernard Meadows, at the head of the basement staircase*
below: *The main aisle seen from the doors of the ground floor sales area*

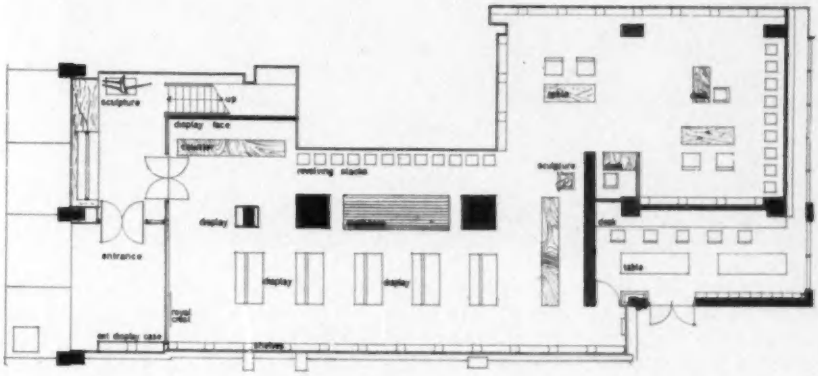


Bookshop in Baker-street, London, W1

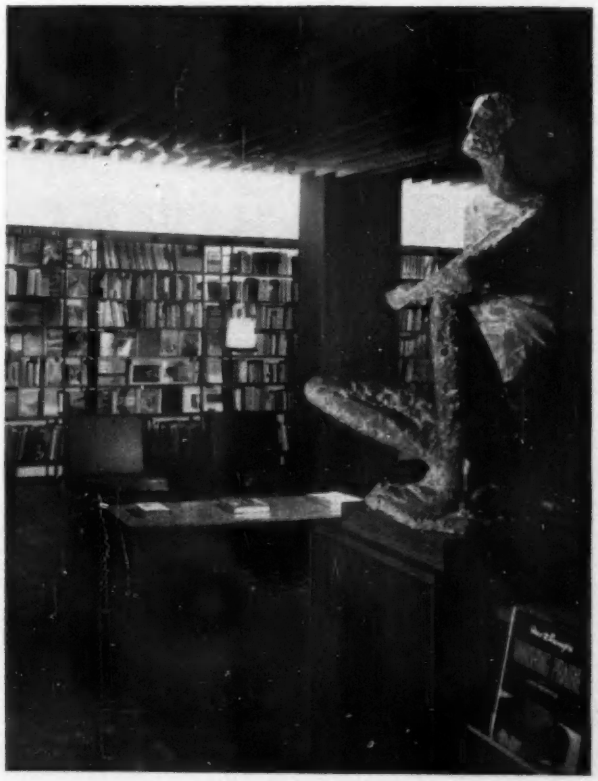
Plans & Section
Scale 1in. = 20ft.







A detail of the sculpture 'Homer' by F. E. McWilliam which stands at the far end of the main aisle shown on the opposite page



The work took 6½ months including two months site works; cost at tender was £12,960. There is 3,455 sq. ft. selling space and 845 sq. ft. offices and storage giving a total of 4,300 sq. ft.; that is £3 0s. 3d. per sq. ft. or 5s. 5d. per cu. ft.

One bay of the shop front is recessed to resolve the duality of the two bays, to provide extra window space, to help the connection between interior and exterior, and to simplify the handling of the smoke vestibule. The existing structure then divided the remainder of the shop into the main selling area and lounge area and the office, all linked visually by the broad expanse of the slatted ceiling. Two large existing columns were united by a display counter and a third smaller column was treated as an exhibition unit. The two sculptures are on the entrance axes. The basement also has a selling area, staff rooms, toilets and storage space.

Lettering throughout the shop is either Times Roman or Antique 6 to harmonise with the house style—wrapping paper, stationery, accounts, etc.—designed by John Sewell, ARCA, MSIA.

The architect writes :—

My purpose was not merely to create an unobtrusively congenial background to an essentially leisurely aspect of shopping. It is not good enough to solve the technicalities of shop design—shelf arrangements, circulation, lighting and so on, and hope to sell books by not indulging in bad taste. A bookshop is something more than a cross between a library and a self-service store. I believe it is possible to surround people with a building both unobtrusive and yet positively recognisable as a work of art—the basic paradox of architecture.

With this in mind I have tried to design something which will strike a responsive chord in the lover of literature. Surrounded by an integrated piece of good design the customer will be spurred with heightened enthusiasm and discrimination into the realm of another art—literature—because he is physically and spiritually assailed by the architectural.

Bookshop in Baker-street, London, W1

A general view of the basement from the foot of the main staircase

There is a further link between these two arts of architecture and literature : they are perhaps the only two arts formed by the practicalities of living—space and speech—which are both active and living elements. This is another reason, if one were needed, why Dickensian fustiness would not do for a bookshop which belongs to the present.

The past will not be forgotten, however. A black enamel and gold Louis clock from the original shop will have its place in the new Bumpus : the original shop, that is, which was on the other side of Oxford Circus before the move westwards in 1935.

This interdependence of the arts has been extended to include sculpture : two of our best sculptors have been commissioned to provide richness at the end of the most important vistas in the shop. Britain is renowned abroad for its sculptors but not at home, and it is sad that commerce so seldom encourages this art or indeed any art : Bentalls at Kingston with its mural by Stefan Knapp is the only example that springs to mind. Bumpus therefore are to be congratulated upon their patronage.

The shop will be quiet and restrained with emphasis on the books rather than the fittings. The number of materials has been kept to a minimum—timber, leather, copper and black steel—and wherever possible natural rather than artificial finishes will be used.

On the ground floor the shop is divided into three spaces, each space having its own character, yet all visually linked by a broad expanse of floor and ceiling. The ceiling will be unusual in the vast use of copper slats. This must be the first shop with a copper ceiling, certainly it will be unique in its breadth and simplicity. All the lighting will be hidden above this ceiling so that the tendency will not arise for this shop, like so many others, to look like an advertisement for light fittings.

The shop will also be unique in its provision of easy-chairs and couches for the tired browser ; another unusual fact is that the Queen's Arms (Bumpus hold the Royal Warrant) will be sandblasted on glass at the front of the shop.

A detail of the main basement staircase which has white mild steel plate strings, terrazzo treads in steel trays, steel balustrades and Africa walnut handrails

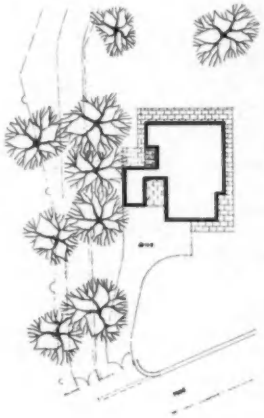
Sub-contractors and Suppliers :

Floor heating, Electra (Birmingham 1935), Ltd.; *ventilation*, Heat Insulation & Ventilation Co., Ltd.; *escape hatch*, Luxfer, Ltd.; *terrazzo*, Zanelli (London), Ltd.; *marble*, Nine Elms Stone Masonry Works; *sanitary fittings*, A. D. Foulkes, Ltd.; *floor tiles*, Armstrong Cork Co., Ltd.; *glass*, James Clark & Eaton, Ltd.; *Royal Crest*, London Sand Blast Decorative Glass Works, Ltd.; *light fittings*, Oy Stockmann AB Helsinki; *Atlas*, Forest Modern; *lounge chairs and desks*, Conran Furniture, Ltd.; *curtaining*, Tibor Fabrics; *pottery*, Briglin.

HOUSE at Clydach-court, Pontypridd

Architects :
H. M. R. BURGESS & Partners

General Contractors :
EMRYS JONES



SITE PLAN

above : *The east elevation seen from the entrance drive*
left : *A detail of the large sliding plate glass windows to the living room*

THIS three-bedroomed, single storey house has been built for Mr. Hywel Thomas, an University lecturer. The site is wooded and mainly flat with a slight slope down to the road. The house has been set well back from the road at the top of this slope.

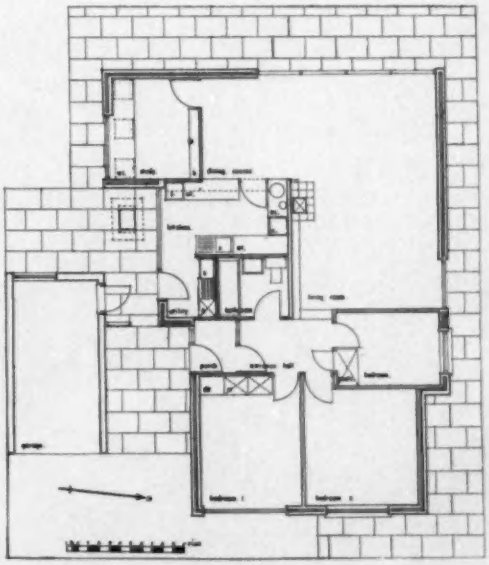
The planning is compact with a central service core of bathroom and kitchen, a large 'L' shaped living-dining room with a study continuing the dining recess and the three bedrooms opening on to the entrance hall.

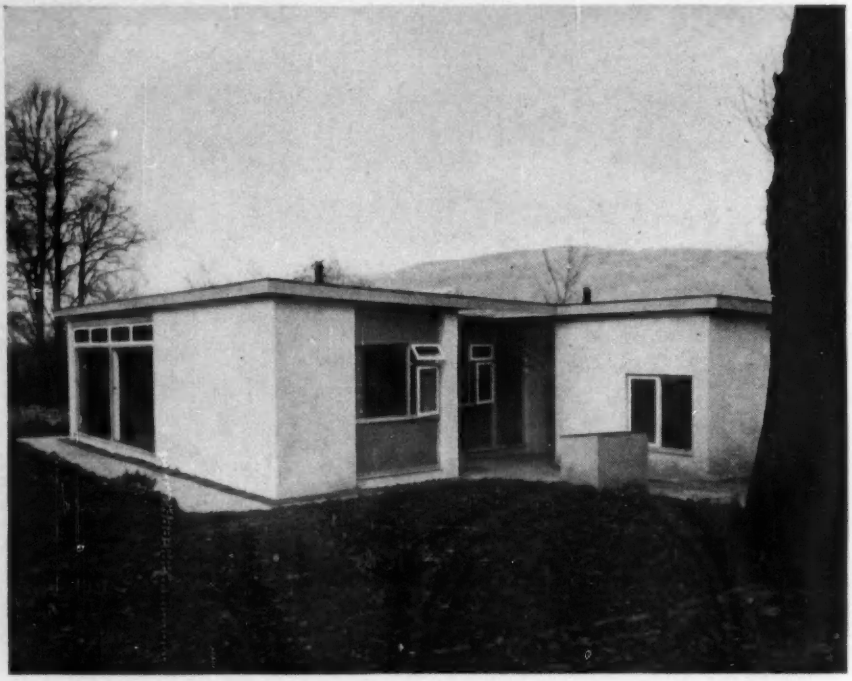
The front door, which leads into a small porch, is on the side of the house beneath a pergola linking the house and the garage.

The floor consists of a 4 in. concrete slab on which is laid a waterproof membrane and a finishing screed which, inclusive of the floor finish, amounts to another 2½ in.

Walls are all in 11 in. loadbearing cavity brickwork which has been rendered externally with 'Snowcrete'. The flat roof has been built up on 8 in. x 1½ in. joists at 16 in. centres. Over these are 2 in. 'Stramit' slabs and three-layer built up felt roofing. The final finish consists of a ½ in. layer of chippings.

Internal finishes include 4.5 mm. linoleum tiles on the floors throughout except for the entrance porch and the kitchen which have 6 in. x 6 in. x ⅛ in. 'Adamantine' tiles.





The west and south elevations. The external door to the kitchen is beneath the pergola linking house and garage

The ceiling in the living-dining room is finished with 3 in. x ¾ in. Oregon pine strip planking which was varnished after completion.

Domestic hot water is supplied by a 'Courtier' stove which is fitted into the special mahogany shelving in the living area. This stove also supplies a small radiator giving background heat in the dining recess.

The internal superficial floor area is 1,014 sq. ft. and the contract price was £3,100 inclusive of site works, drive, etc. This price also included the built-in mahogany fittings in the living area and the complete range of kitchen units.

House at Clydach-court, Pontypridd

Sub-contractors and Suppliers:

Linoleum floor tiling, Western Trinidad Co., Ltd.; *plumbing*, W. S. Birkett; *electrical installation*, South Wales Electricity Board.

A view of the living-dining room taken through the sliding window. The ceiling is finished with strip planking in varnished pine

COMPETITION NEWS

County Offices for Taunton

SOMERSET COUNTY COUNCIL have issued the conditions of their architectural competition for County Offices which it is proposed to erect on a site bounded by Park-street, Cann-street, Shuttern, Upper High-street and The Crescent, Taunton. The assessors are the Hon. Lionel Brett, FRIBA, Mr. Geoffrey Jellicoe, FRIBA, and Mr. J. M. Richards, ARIBA. The premiums for the designs placed first, second and third are £1,500, £1,000 and £500 respectively.

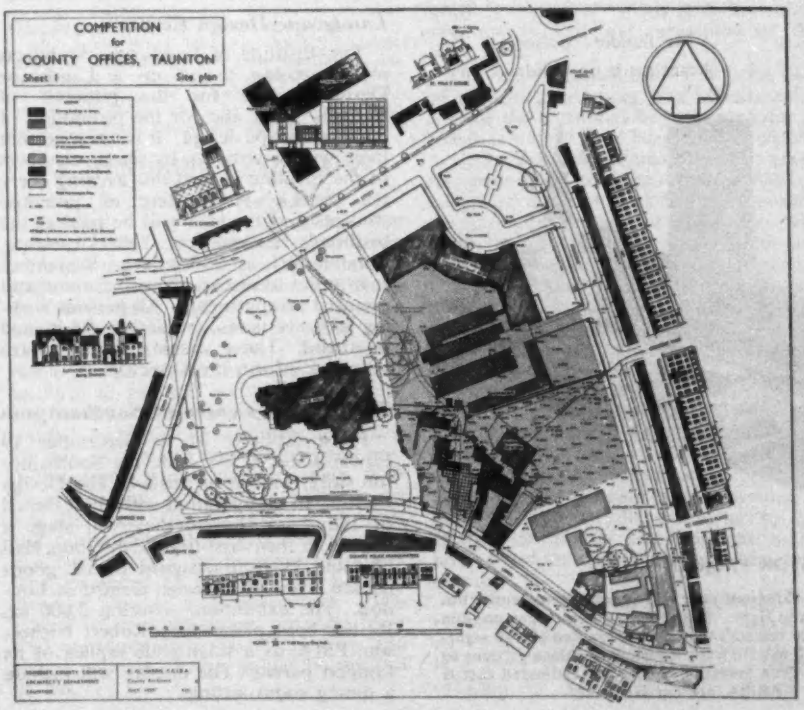
The competition is open to registered architects resident in the United Kingdom. Designs must be submitted by 5.30 p.m. on February 15, 1960 and the last day for questions is September 22, 1959. Conditions and instructions can be obtained from the Clerk of the County Council County Hall, Taunton, Somerset, on receipt of a deposit of £2 2s.

Competitors are strongly advised to visit the site, which is of exceptional interest, and acquaint themselves with its characteristics and those of the surrounding buildings. The site plan, which is included with the conditions and instructions, shows the building line within which the new premises must be confined. The new building is intended to accommodate the administrative offices of the Somerset County Council, now partly housed in the County Hall (erected in 1935 from the designs of Mr. E. Vincent Harris, OBE, RA, FRIBA) and partly in other buildings in the vicinity.

The new offices are to be linked with the County Hall so that the two buildings will form one administrative unit. This link need not necessarily be at each floor level, but must give reasonable circulation between the two buildings. The design should allow for maximum flexibility by the use of movable partitions. The total floor area will be approximately 60,630 sq. ft. which will include provision for 6,000 sq ft. of spare office accommodation distributed throughout the building as specified in the schedule.

Space is required for approximately 200 cars in addition to that in front of the existing County Hall, the car park adjoining the Shire Hall, and the garage accommodation on the ground floor of the new premises. Competitors may assume that the southern corner of the site outside the building area, at present occupied by temporary buildings, is available for this purpose.

The total cost of the building, which it is the intention of the promoters to proceed with, exclusive of Civil Defence Headquarters (which may or may not be necessary), demolition of existing buildings and of professional fees, but inclusive of external works, is not to exceed £400,000.



OBITUARY

H. S. Goodhart-Rendel, CBE

ARISTOCRAT, architect, critic, musician, wit, Harry Stuart Goodhart-Rendel, who died in London at the age of 71 on June 21, was all these things and much else besides, and a man of great personal charm. The son of Harry Chester Goodhart and the Hon. Rose Ellen, eldest daughter of Lord Rendel, of Hatchlands, he took the additional name of Rendel by royal licence in 1902. Educated at Eton and Trinity College, Cambridge, he studied music with Sir Donald Tovey with the idea of following a musical career, but found architecture a greater attraction, setting up in practice at the age of 23. He served in the Grenadier Guards during the 1914-18 war and again in the last war. He was a bachelor.

He became a member of the RIBA council in 1926 and was President from 1937 to 1939. Appointed Director of the AA School of Architecture in 1936 he resigned a year or two later. From 1933 to 1936 he was Slade Professor of Fine Art, Oxford University. Vice-President of the Royal Academy of Music, he was also a governor of Sadler's Wells from 1934, and President of the Guild of Catholic Artists and Craftsmen from 1946 to 1952. A traditionalist in architecture, he was no copyist; all his buildings have an individual freshness and distinction. Among them may be mentioned some admirable early small buildings in Tufton-street, Westminster, estate workers' cottages and other work at Hatchlands, Hay's Wharf, near London Bridge, building society offices at Brighton, Eton Boys' and Old Boys' Club, Hackney Wick, the Princess Elizabeth Hospital for Children, Banstead, the church of St. Wilfrid, Elm-grove, Brighton, the new Prinknash Abbey Church, near Gloucester, and the cloister forming the Brigade of Guards war memorial in Birdcage-walk.

Goodhart-Rendel was a brilliant writer and critic, his favourite subject being nineteenth-century architecture, of which he had an unparalleled knowledge. His publications include 'English Architecture since the Regency' (founded on his 1934 Oxford lectures), 'Victorian Nights,' the chapter on 'English Architects and Architecture since 1834' in the Centenary History of the RIBA, and a booklet on Hatchlands, East Clandon, Surrey, which he gave to the National Trust in 1945. His valuable manuscript notes on nineteenth-century churches are in the RIBA library.

He had acted as hon. treasurer of the Architects' Benevolent Society for many years. Mr. Howard Lobb writes: 'In councils and committees, at which until his recent illness he was a regular attender, his kindly understanding of the needs of our beneficiaries and the need to respect their wishes and confidences in adversity was a most salutary experience to those who worked with him. He worked hard and had a keen interest in the establishment of Frenchlands Hatch at East Horsley, and the site on which these homes are built may be said to have been selected by him. We, the officers and council of the Architects' Benevolent Society, and those in need have all lost a friend.'

A. G. Chant, FRIBA

MR. ARTHUR GUY CHANT, Shropshire County Architect from 1930 to 1951, died at his home at Berwick Road, Shrewsbury on August 9 at the age of 72. His outstanding contributions to Shropshire architecture include the remodelling of the Shirehall, the designing of Shrewsbury Technical College, the Priory Grammar School for Girls, and Grammar Schools at Whitchurch and Wellington.

C. F. Ward

WE REGRET to announce the death, on August 12, of Mr. Charles Frederick Ward, late of Ward & Paterson, Ltd., the building contractors. Mr. Ward, with Mr. Paterson, was founder of the company and until 1955 was its chairman and managing director. He was in his 82nd year.

News of the Week

Swiss Industrial Architecture

As part of the Swiss Fortnight in London—Switzerland on Show—the Royal Institute of British Architects will present an Exhibition of Industrial Architecture in Switzerland from October 6 to 17, 1959 (Monday—Friday 10—7; Saturdays 10—5. Admission free). The exhibition, which will be opened by the Swiss Ambassador, has been prepared by the Federation of Swiss Architects and will contain photographs, plans, models and, it is hoped, sculpture. After the showing at the RIBA the Swiss Embassy are hoping to tour the exhibition to about six centres in different parts of the country.

Contrary to what is often assumed, Switzerland is one of the most highly industrialised countries in the world. Economic factors have favoured the decentralisation of factories and Switzerland has therefore been spared the ugly industrial centres which are a common feature in many other countries. From early days the Swiss sited and planned their factories so as to provide pleasant places in which to work. Built in 1932 the Bata shoe factory was one of the earliest examples of this kind of layout. The exhibition will show the developments in design and layout which have been achieved by Swiss architects with the co-operation of factory owners since the days when these projects were first developed.

ARCUK Scholarships

The Architects Registration Council of the United Kingdom will provide scholarships and maintenance grants to selected students of British nationality who have yet to take their examination in professional practice and practical experience, and whose means are insufficient to pursue special and approved studies in architecture.

Grants will be available only for subjects related to the syllabuses of the final examinations qualifying for registration. Candidates must submit their programmes of study in detail, and in the case of a student at one of the schools whose final examination is recognised, the programme of studies must be countersigned as approved by the head of the school or department of architecture. In the case of a candidate qualifying by means of the final or special final examinations of the RIBA, the programme must be countersigned by a registered architect.

Grants, which may consist of up to £800 plus approved fees, will be tenable at an approved teaching or research institution normally for one year and renewable for a second on submission and approval of a further application. Candidates should submit their applications to ARCUK, 68 Portland-place, London, W1, by September 1, 1960, and thereafter on September 1 annually.

ARCUK Appointments

Mr. Howard V. Lobb, CBS, FRIBA, and Mr. S. Vincent Goodman, FRIBA, were reappointed chairman and vice-chairman respectively of the Architects Registration Council at the meeting held on March 11 last, and not as stated in our last issue. Mr. W. R. Howard was appointed vice-chairman of the Admission Committee at the meeting held on June 17.

COMING EVENTS

FRIDAY, AUGUST 21

RIBA.—Exhibition of Churchill College competition designs. Open Mon.-Fri.: 10-5.30; Sat.: 10-1. 66 Portland-pl., W1. (Until September 12.)

TUESDAY, AUGUST 27

Town Planning Institute.—Town and Country Planning Summer School. University of Southampton. (Until September 2.)

'The Builder' Cartoon

Acanthus is on holiday.

NEW KENSINGTON PROJECT

THE PROPOSED Kensington High-street redevelopment as it will appear from Kensington Park-gardens. St. Mary Abbott's Church is on the right. Rising from a two-storey podium are (right) a 23-storey office block, a single-storey restaurant, with roof garden and an eight-storey block of flats. A 14-storey hotel (left) will extend from Kensington Palace-gardens to Kensington Palace-avenue. The developers are Eron Investments and the estimated cost is £5m. R. Seifert & Partners, F/ARIBA, are the architects.

The Croydon Airport Site

In the development plan for the site of the former Croydon Airport which has been drafted by the planning committee of Surrey County Council after consultation with Beddington and Wallington Council and Croydon Council, 29 acres have been allocated for educational purposes, 95 acres for houses, flats and shops, 100 acres for school playing fields and 89 acres for public open space.

The route for the proposed London to Brighton motor road has also been announced and has been submitted to the Minister of Transport for approval. In this the highways committee show the 94 ft. wide road running through the back gardens of houses in Wallington, and many houses in Sandy-lane South will be affected. Beddington and Wallington Council are opposing the proposed route, and Ald. D. H. de Voil, chairman of the special sub-committee set up to study the borough's interests, stated that the proposal would carry the road through 2,750 yards of residential property in the borough, most of which was of modern construction. If it was routed across the completely undeveloped Croydon Airport site, only 1,450 yards of property, much of it of the older type, would be affected.

National Trust Exhibition

The 'Beauty in Trust' exhibition sponsored by the National Trust and London Transport at Charing Cross Underground station is being extended another three weeks until September 5, because it has proved a big public draw. Over 25,000 people have visited the exhibition since it opened on July 21. It shows Londoners what the National Trust has done to preserve beauty spots and places of historical interest in the London area and appeals for more members.

Landscape Design Centre

The Institute of Landscape Architects are proposing to set up a Landscape Design Centre for the criticism of students' work and for the promotion of good landscape design. It is intended that there will be criticism by senior members of the Institute at least one evening every two weeks. A meeting of potential students and the staff will be held at the Institute's headquarters, 1 Park-crescent, London, W1, at 6.30 p.m. on September 1, in order to discuss the programme and essential arrangements. All persons wishing to study landscape design are invited to attend. Those wishing to do so are asked to inform the Director.

The Design Centre at Southampton

From August 31 to September 19 Edwin Jones & Co. Ltd., the Southampton store, will act as hosts to The Design Centre. In co-operation with the Council of Industrial Design, they will stage a display in their first-floor Exhibition Hall of some 350 well-designed British goods chosen from The Design Centre in London. The exhibition, covering 2,000 sq. ft., has been planned by Robert Nicholson, FSIA, as a small-scale replica of its London parent. The display will include a dining room setting.

'Municipal Engineering as a Career'

A CAREERS booklet, published by the Institution of Municipal Engineers, was launched at a reception given recently at the Café Royal, London. The president, Mr. David Watson, said that the booklet had been prepared so that young men, especially those about to leave school, may fully appreciate what is involved in the profession and what its prospects are. The publication has been distributed to all County Councils and Educational bodies to be used as a guide to young men in their choice of a career and it is hoped by a perusal of the booklet to attract as many as possible into the service.

Appointments

MR. WILLIAM KRETCHMER, principal architect for schools in the Coventry City Architect's Department, has been appointed to the new post of Reader in Architecture at the Welsh College of Advanced Technology at Cardiff. He will begin his new duties on October 1.

MR. H. W. MORRIS, BSc, AMICE, AMInstHE, has been appointed Borough Engineer and Surveyor of Stourbridge in succession to Mr. G. N. Maynard.

MR. W. G. HARRIS, MA, MICE, has been appointed civil engineering chief and Director-General of Navy Works, Admiralty (Designate). He succeeds Sir Maurice E. Adams, KBE.

MR. L. W. HILL, chief architectural assistant in the Borough Engineer's Department of Wigan Corporation, has been promoted Building Superintendent.

PROFESSIONAL ANNOUNCEMENTS

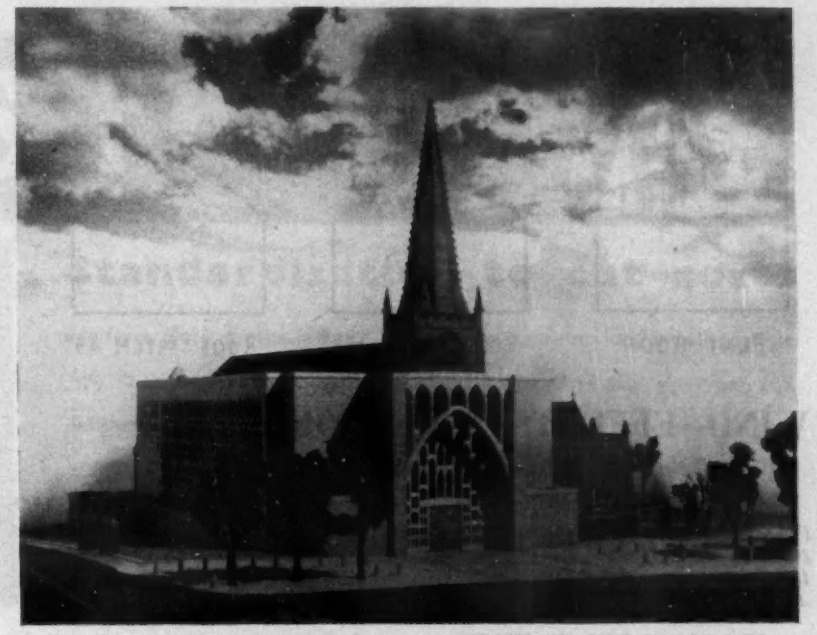
The Middlesbrough office of MESSRS. BAKER, MALLETT & PTNRS., quantity surveyors, of Grosvenor Gardens House, Grosvenor Gardens, SW1, has now moved to 54/56 Albert-road, Middlesbrough, Yorkshire. The telephone number (Middlesbrough 3538) remains unchanged.

MR. JOHN WEST HOLMES, ARICS, AIArb, lately of Mevagissey, has now established his practice as a chartered quantity surveyor at 45 Bodmin-road, St. Austell, Cornwall, (tel: St. Austell 3848), where he will be pleased to receive all trade catalogues and price lists.

A HUNDRED YEARS AGO

From The Builder *of August* 20, 1859

DISEASE, AND THE CONDITION OF LONDON.—The condition of many parts of London and the suburbs remains very bad: over-crowding increases, and there is the greatest difficulty in obtaining healthful lodgings at a reasonable rate. One poor man writes to us—'What is the cause of the exorbitant price we all of us have to pay for our homes? I, with my family, live in a room barely four yards long by three yards wide, for which we pay 3s. a week, unfurnished, and notwithstanding much floor scrubbing, bedstead cleaning, and clothes washing, we are devoured with bed vermin, through the necessity of keeping a fire close to the beds all day for cooking purposes.' The dwellings of the poor are horrible dens of disease and discomfort. The cursed single-room system produces fever and consumption amongst children, and drives parents to the public house and to sin.



SHEFFIELD CATHEDRAL.—Model showing the design of the architect, Mr. George G. Pace, FSA, FRIBA, for completion

CARE OF CHURCHES

Advice on Organ Cases and Lettering

'ORGAN Cases for Parish Churches' (published for the Central Council for the Care of Churches, by the Church Information Office at 1s. 6d., by post 1s. 8d., from the Church House Bookshop, Great Smith-street, SW1) is intended to be a supplement to 'Organs in Parish Churches' (Church Information Office, by post, 11d.), which is concerned mainly with the siting, size, maintenance and restoration of the organ itself.

The new publication shows, with the help of attractive illustrations, how without undue expense the organ may be made a source of visual as well as aural beauty in the church. Accurate technical information is given about the make-up of the pipes and emphasis is laid upon the care needed in manipulating the respective lengths of the 'foot' and 'body' to achieve a basis for successful case design. A series of simple line diagrams illustrating these points will be of great assistance to architect and wood-worker alike. There is also an interesting illustrated sketch of the history of organ cases, from which it appears that designers at the present time have more to learn from the cases of the fifteenth and sixteenth centuries than from cases of the baroque-type which are more common in this country, but which are often too expensive for present day conditions. Monotony and expenses may be avoided by using painting for decoration, or by the creation of corbels and pinnacles, which involve wood-turning and joinery rather than carving.

'Lettering for Churches' (published from the same address for the Central Council for the Care of Churches at 1s., by post 1s. 2d.) is a sheet of roman and italic alphabets designed by Miss Ruth Mary Wood of Exeter primarily for the guidance of monumental masons, sculptors, embroidresses, metal-workers, sign-writers and scribes who carry out work for the church. It will also be found useful by those who design posters and notices, and by teachers of art in schools and colleges. Valuable practical advice is given on the reverse side of the sheet on such subjects as letter-forms, margins, spacing and the design of church notice boards.

TOWN AND COUNTRY PLANNING ASSOCIATION

Diamond Jubilee

THE DIAMOND JUBILEE of the Town & Country Planning Association is being celebrated this year. A New Towns Exhibition at the Royal Academy in October and a Jubilee Dinner at the Mansion House on October 23 are part of these celebrations.

A great deal has been accomplished by this organisation in the past 60 years and their constant efforts to limit the decline of rural areas, the stagnation of certain industrial towns and the excessive growth and congestion of London, Birmingham and other great centres, are worthy of the constant support of both individuals and organisations.

The Association emphasises the need for more new towns not only from the point of view of the congestion in cities but because of the large increase in population expected over the next few years. Rehousing at high densities is, according to the Association, financially wasteful and inhuman. In view of the number of high flats being built in cities throughout the country at present it is disturbing to think that planners are in opposition to each other as to whether the spread should be outwards or upwards.

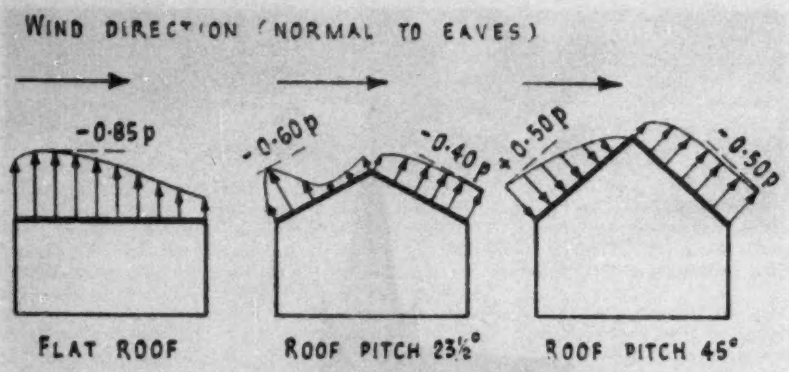


Fig. 1—External pressures and suctions on roofs

WIND EFFECTS ON ROOFS

Avoiding the Hazards of Lightweight Construction

'Wind Effects on Roofs,' Building Research Station Digest No. 122 (*HMSO, price* 4*d.*), *recently published, includes design considerations to be borne in mind particularly in regard to roofs of lightweight construction. Some extracts from the Digest are reproduced below by permission of the Director of Building Research.*

PRESSURES DUE TO WIND

THE revised British Standard Code of Practice, CP.3, Chapter V (1952), 'Loading,' is now the basis of most structural engineering design in this country so far as the effect of wind is concerned. The current Model By-laws of the Ministry of Housing and Local Government specify that wind loading on a building shall be calculated on the basis of this code.

Internal Pressures

The main effect of wind on a roof is to develop an external pressure on the surface of the roof, but in addition air-flow through the cladding of the building and through openings in the cladding can build up an internal pressure on the underside of the roof surface. Both external and internal pressures are given in multiples of the basic pressure p (lb. per sq. ft.). In the code of practice, the term 'pressure' is used in a general sense, a negative sign being used to indicate suction. (The pressures which the wind exerts are given in detail in the Code and Digest and are not repeated here for reasons of space.)

SOME DESIGN CONSIDERATIONS

Strength and Stability

Strength of a roof is its ability to carry load without failure by overstress. The load includes the self-weight of the roof, wind load, an imposed load to allow for snow, and, in some cases where access to the roof is provided, an imposed load to deal with possible concentrations of load on or in the roof structure. The design of a roof of normal construction on a stress basis using working loads given in codes or by-laws presents no great difficulty, although the designer now has to consider carefully the effect of wind, which can in some cases for instance lead to a reversal of stress in the members of the roof structure. It is common practice to allow increased working stresses when wind effects are considered, so long as the increase is wholly due to the wind.

Stability of a roof is its ability, by virtue of its self-weight alone or with anchorages or fastenings, to counter the uplift effects of wind. In the past with roofs of traditional design and material, stability rarely called for special anchorages. But the recognition that considerable wind suction occurs on some forms of roof (as indicated in the code of practice) makes it incumbent upon the designer of a relatively lightweight roof to investigate closely the possible need for anchorages to ensure an adequate margin of safety against the roof as a whole being detached from the rest of the building.

The margin of safety to be used in designing roofs to resist uplift or overturning is not stated in any code or by-law. BS449 for the design of steel-framed buildings specifies a design factor of 1.5, i.e. the stability moment of any structure as a whole shall exceed the overturning moment due to wind and other forces by at least 50 per cent. Since roofs are more responsive to the effect of wind than is the building as a whole, a higher margin is desirable. For small house roofs, for example, it would be reasonable to ask for a factor of at least 3.0, that is, twice that called for in respect of a steel building as a whole.

Mono-pitch Roofs

Until more experimental data are available, it would probably be reasonable to assume that the external suction on a mono-pitch roof is the same as for a windward slope of the same pitch.

Lightweight House Roofs of Low Pitch

With the present tendency towards lightness in construction, troubles have been experienced because the suction due to wind is sometimes sufficient, if the roof pitch is low, to cause the roof to lift if it is not adequately anchored to the walls. Lightweight roofs of houses have comparatively little inertia and can respond to gusts of winds more readily than the larger, heavier roofs of bigger buildings. The recommendations of the Code of Practice may not, therefore, be wholly satisfactory for these lightweight roofs and a safer basis for design is suggested below. It is assumed that the roof members and cladding are properly connected together to act as a whole in resisting wind and other forces.

In a block of several houses, the end houses may be more seriously affected by wind blowing at an angle to the face of the building and it is desirable therefore to give special consideration to the stability of the roofs of these end houses.

Except for the end houses, the external wind suction should be assumed to be increased to 1.5 p within a distance of 4 ft. from the windward edge of the roof. The external wind suction on end houses should be assumed to be 50 per cent greater than those of the other houses, and also the suction should be assumed to be increased to 2.25 p for a distance of 4 ft. from the end of the roof for the whole depth of the house. For a flat roof, these external suctions are illustrated in Fig. 2(a).

The internal pressure, also tending to lift the roof, should be assumed to be 0.2 p as specified in the code for a building with normal openings. Where a roof has overhangs, the upward pressure under the overhang on the windward side may be taken as 0.5 p and the suction under the overhang on the leeward side may be taken as 0.3p. The resulting total suctions for an end house with a flat roof and overhangs are shown in Fig. 2 (*b*).

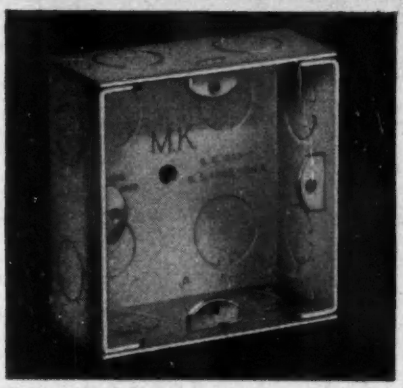
In order to provide an adequate margin of safety where no special anchorage of the main roof structure is provided and the effects of wind suction have to be resisted by the weight of the roof alone, this weight should be at least sufficient to prevent uplift or overturning of the roof when the forces due to wind are assumed to be increased to three times the normal values calculated in accordance with the above recommendations.

When the dead weight of the roof is insufficient to satisfy this requirement, special anchorage must be provided such that the weight of the roof, together with the holding-down strength of the anchorage, is at least sufficient to prevent uplift or overturning of the roof when the forces due to wind are again assumed to be increased to three times the normal values.

It is important that the assumed ultimate strength of special anchorages should be realistic in relation to the variability of this strength and the standard of workmanship probably attained on the site. Where permissible design loads are given in codes or by-laws (e.g. for bolting or nailing) it should be assumed that the ultimate strength is not more than twice the design values.

In the past, house roofs required no special anchorage. Accordingly, where such special provision is necessary for lightweight roofs of low pitch, it is desirable to draw particular attention to the need for this anchorage in the contract documents so that adequate supervision is arranged on the site to ensure that the

NEWS from MK



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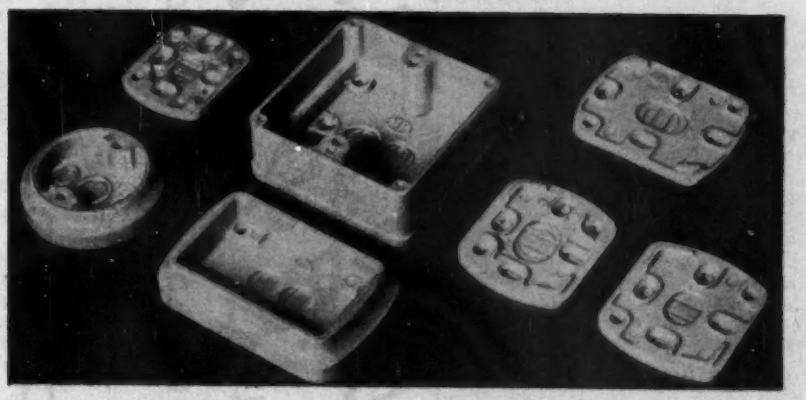

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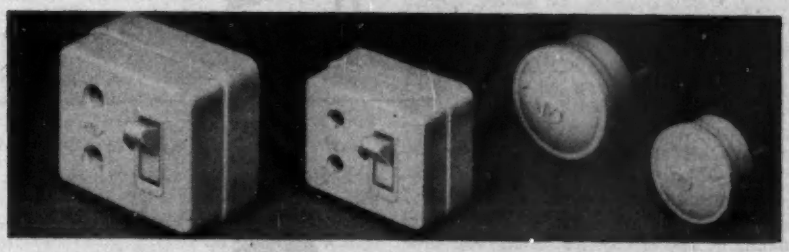

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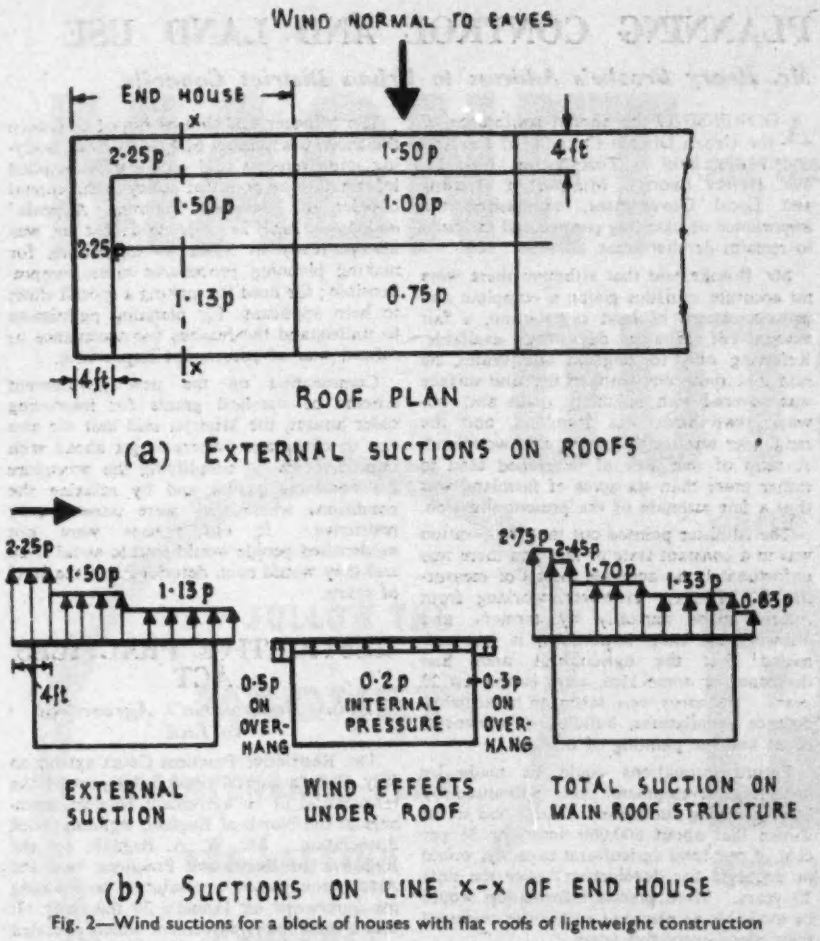

Fig. 2—Wind suctions for a block of houses with flat roofs of lightweight construction

anchorage is satisfactory. It should also be noted that, although a minimum margin of safety has been introduced into these recommendations, a much higher margin can usually be obtained with little increase in cost.

The wind forces on roof coverings and fastenings should in general be deduced on the basis adopted in the code. That is, the suction on the coverings should be taken as 0.1*p* greater than the total values (including the effect of internal pressure) recommended above for the main roof structure; the fastenings should be sufficient to support these forces on the covering, and those fastenings within a distance of 4 ft. of the span from the eaves of interior houses be capable of resisting a suction of 2*p* on the area of covering that they support. In the case of end houses, it is probably best to design the fastenings for a suction of 3*p* on the covering over the full area of the house.

Special Roofs

The code of practice does not deal with all practical conditions of wind loading. It is stated in the Appendix to the code that 'where the shape of the building in elevation and/or plan is unusual, or there are particularly large openings in the walls, or where there are no walls as in a dutch barn, available data are insufficient to justify well-defined recommendations for estimating the effects of wind, and in these cases, and also for exceptionally large buildings, wind-tunnel tests would be useful, if obtainable.'

For buildings with no walls, such as dutch barns, or for framed buildings during construction when infilling wall panels have not been built, it is probably safe to assume that the worst internal pressure beneath the roof arises when partial filling of the barn, or partial cladding of the framed building, leads to conditions similar to those of buildings with one side open. That is the pressure or suction beneath the roof is 0.5*p*.

Public Gardens in Towns

THE report of the Metropolitan Public Gardens Association for 1958 contains several features of literary and pictorial interest. The formed include a précis of Mr. Peter Shepheard's talk on 'Trees in Towns' at the annual general meeting, and answers to numerous questions about trees, flowers and hedges; and the latter an illustration of the attractive little garden that the Association has laid out in Shepherdess-walk for Shoreditch Borough Council. Some cautionary examples of unskilled lopping and pruning are shown. There is also a list of members and donors, which the Association would like to see extended. The report is issued from 58, Denison House, 296 Vauxhall Bridge-road, SW1.

PLANNING APPLICATIONS AND APPEALS

The New Procedure Explained

By A. E. Telling, MA

AS from August 16, applicants for planning permission must observe new rules laid down by section 37 of the Town and Country Planning Act, 1959. The following rules apply to every application for planning permission under Part III of the 1947 Act:

1. The applicant must be the estate owner in respect of the fee simple (freehold) or entitled to a tenancy. The 'estate owner' is not necessarily the present freeholder; where there is a contract of sale, the estate owner will be the prospective purchaser under that contract. Similarly, a prospective lessee will be able to apply since he is entitled to a tenancy.

2. At least 21 days before making the application, the applicant must notify:

(a) any other person who is the estate owner;

(b) any tenant under a lease with at least ten years to run;

(c) if the land comprises or forms part of an agricultural holding, the tenant thereof.

If the applicant does not know the names and addresses of all such persons, he must publish notice of his application in a local newspaper; this must be done at least 21 days before.

3. The application to the local planning authority must be accompanied by certificates that the above requirements have been complied with, together with a certificate as to whether any part of the land is or is not included in an agricultural holding. The form of these certificates is prescribed by the T. and C. P. General Development Order, 1959, second schedule. It is an offence knowingly or recklessly to give false information in these certificates.

4. On receiving the application, the local planning authority must allow a further period of 21 days within which any of the above-mentioned persons may make representations. If the authority receive any such representation, they must have regard to it in coming to their decision. This does not mean that the authority are to accept the representation; they must give serious consideration to it and then make up their own mind.

5. The local planning authority must give notice of their decision to any person who has made representations in pursuance of this new procedure.

Special Cases

Section 36 of the new Act provides that in certain special cases, the applicant must in any event publish notice in the local press indicating where any member of the public may inspect plans. Members of the public then have the right to make representations to the local planning authority. Here again, the authority must have regard to any such representations before making their decision. Experience

of planning inquiries in which members of the public have intervened suggests that the representations will some times contain matter that is not really relevant, and it is to be hoped that planning officers will be careful to distinguish between what is relevant on planning grounds and what is not.

The special cases are listed in article 7 of the new General Development Order:

(a) construction of buildings for use as a public convenience;

(b) construction of buildings or other operations, or use of land, for the disposal of refuse or waste materials;

(c) construction of buildings or other operations (other than the laying of sewers, the construction of septic tanks serving single dwellinghouses, and works ancillary thereto) or use of land, for the purpose of sewage disposal;

(d) construction of buildings or use of land for the purposes of a slaughter-house or knacker's yard;

(e) construction of buildings and use of buildings as a theatre, cinema, music hall dance hall, skating rink, swimming bath, Turkish, etc., bath, gymnasium, or a building for indoor games.

Appeals

There is also a new procedure for appeals. Unfortunately, this is not clearly prescribed in the new Act, but the position would seem to be as follows:

1. The appellant must, as hitherto, be the person who made the original application. The new Act does not confer new rights of appeal.

2. Notice of appeal must be given to the Ministry within one calendar month of receiving the local authority's decision unless the Ministry grants an extension of time. There has never been any difficulty about getting an extension of time, but the point is of some importance in view of what follows.

3. The appellant must give or publish the same notices as on the original application. A strict interpretation of section 37 of the new Act would suggest that these notices must be given or published at least 21 days before the notice of appeal. Probably, this is not the intention. If it were correct, it would mean that the appellant would have only seven days from receiving the local authority's decision in which to make up his mind whether or not to appeal and to arrange for all the necessary notices to be served or published—unless, of course, the Ministry agreed to an extension of time.

4. The persons entitled to notice under the previous paragraph will then have 21 days in which to make representations about the appeal to the Ministry. This would suggest that the notices mentioned in the previous paragraph do not have to be given or published 21 days before the notice of appeal to the Ministry. Otherwise, the Ministry would be receiving representations about an appeal before they had had notice of it.

Three statutory instruments issued under the Act which also came into force on August 16 were summarised on page 27 of *The Builder* of August 14.

PLANNING CONTROL AND LAND USE

Mr. Henry Brooke's Address to Urban District Councils

ADDRESSING the annual conference of the Urban District Councils of England and Wales, held at Torquay on June 25, MR. HENRY BROOKE, Minister of Housing and Local Government, emphasised the importance of planning control and the need to reclaim derelict areas.

Mr. Brooke said that although there were no accurate statistics giving a complete and precise pattern of land distribution, a fair amount of reliable data was available. Referring only to England and Wales, he said that about one-tenth of the land surface was covered with buildings, roads and railways; two-thirds was farmland, and the remainder was rough grazing and woodland. A ratio of one acre of developed land to rather more than six acres of farmland was thus a fair estimate of the present situation.

The Minister pointed out that the position was in a constant state of flux and there was unfortunately no accurate means of measuring the change. However, working from returns made annually by farmers, and allowing for their limitations, it was estimated that the agricultural area had decreased by some 1½m. acres in the last 20 years. The areas were taken up by airfields, defence installations, building development, roads and the planting of timber.

Future estimations could be made by analysing development plans submitted by local planning authorities. These had so far shown that about 600,000 acres, or 3½ per cent of our total agricultural capacity, would be required for development over the next 20 years. More precise information would be available as planning authorities reviewed their plans every five years.

In view of these facts Mr. Brooke emphasised the necessity of seriously considering all decisions affecting land use. With modern farming methods and rapid scientific progress we had increased productivity by 60 per cent in the last 20 years. Nevertheless, whatever might happen, we had nothing we could afford to waste. The growing population and the rising standard of living were bound to extend the demand for land.

Referring to land laid derelict by industrial or mining activity, Mr. Brooke said, 'We must keep it down to the absolute minimum and pay more attention to ways of reclaiming it. Irreclaimable land must be levelled and planted with vegetation so that we do not bequeath to future generations the sort of ugliness we have inherited from the Industrial Revolution.'

Speaking about the new Town and Country Planning Bill, which he hoped would be on the Statute Book in July, Mr. Brooke said: 'I am grateful to local authorities for the frank manner in which most of them have accepted that it is right and just to pay a man the market value of his land if it is taken from him compulsorily by a public authority. This new Bill will get the question of compensation firmly settled and I hope that it will also enhance the importance of reaching right decisions on questions of planning. The Bill will make some changes in the procedure of planning applications and appeals.'

The Minister said that he hoped to reduce the enormous number of appeals by embodying improvements and giving more explicit information on points of policy in the annual booklet of Selected Planning Appeals' issued on June 24. He said that he was always ready to listen to suggestions for making planning procedures more comprehensible; the need for making a special effort to help applicants for planning permission to understand the reasons for acceptance or refusal was of paramount importance.

Commenting on the new government scheme of standard grants for improving older houses, the Minister said that the aim was to encourage owners to get ahead with improvements by simplifying the procedure for obtaining grants and by relaxing the conditions where they were unnecessarily restrictive. If old houses were not modernised people would tend to avoid them and they would soon deteriorate to the level of slums.

RESTRICTIVE PRACTICES ACT

Brick Association's Agreement to End

THE Restrictive Practices Court agreed on July 16 to a formal order in respect of the termination of an agreement between members of the North of England Building Brick Association. Mr. W. A. Bagnall, for the Registrar of Restrictive Practices, said the Association passed a resolution terminating the agreement on January 20 this year. It was a price fixing agreement which operated only in Northumberland and Durham and parts of the North Riding of Yorkshire. Mr. D. A. Grant, for the Association, said it was formed in 1942, when there was a necessity for regulating prices, and the prices brought into force by the Association were recognised by the Government at that time.

There was little doubt that, at that time, the Association was acting in the public interest. They did not attempt to defend the agreement now.

Removal from Register

THE agreement between the British Constructional Steelwork Association and the Central Electricity Generating Board on the method by which contract price adjustments should be calculated has been removed from the register of the Registrar of Restrictive Trading Agreements under a direction of the Board of Trade dated July 30, given under Section 12 of the Restrictive Trade Practices Act, 1956.

Agreement Approved

AFTER the Restrictive Trade Practices Court had given its decision on July 31 in the case of the Water Tube Boilermakers' Association, Mr. J. B. Woodeson, OBE, chairman, commented: 'In approving the agreement of the Water-Tube Boilermakers' Association the Court has shown a realistic appreciation of the national importance of this great industry and in particular of its achievements in the field of overseas trade.'

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THE CHARM OF KEW GARDENS

Taste and Scholarship Applied to Competent Restoration

IF one is tempted to write about Kew as if it were one's own back garden, this is perhaps in a way the measure of its universal charm. The gardens have something for everybody, and almost everybody tends to regard that something as their own private discovery.

Consequently, as Gertrude Stein might have said, 'Kew is Kew is Kew,' meaning take it or leave it, but in either case as it is—or rather, was. By the nature of things, however, this cannot be done: apart from the vagaries of our climate and the most useful and continuous research which goes on quietly behind the scenes, the buildings, 'follies' and conceits which mean so much to those of us less horticulturally minded must represent a cumulative headache in upkeep. Of this we nearly had a disastrous example when it looked as if Decimus Burton's splendid Palm House might become a total loss.

It is therefore the more pleasant to be able unstintingly to congratulate a Ministry of Works which now seems to add to brisk and competent reclamation an unprecedented degree of taste and scholarship. These have been applied at Kew in time for a Royal Opening on the particularly appropriate occasion of the Royal Botanic Gardens' bicentenary. For good measure, Chambers' Orangery (1761) and the Queen's Cottage (c.1772) are thrown in, the former restored to its original purpose and the latter refurbished inside and now opened to the public.

As near neighbour, I have watched with increasing satisfaction the progress of the Palm House repairs. During the complicated process, like one of those unearthly blood-replacement operations, of removing the exhibits one section at a time, the building looked almost its best, particularly when a winter sunset transfigured the un-condensated glass of the new 3 ft. 4 in. panes replacing the patchwork accretion which it had become. This has halved the number of laps, and apart from the question of heat-loss (a consistent temperature and relatively high humidity are essential) the visual benefit of the curved panes and unobtrusive tight-lapped joints is enormous.

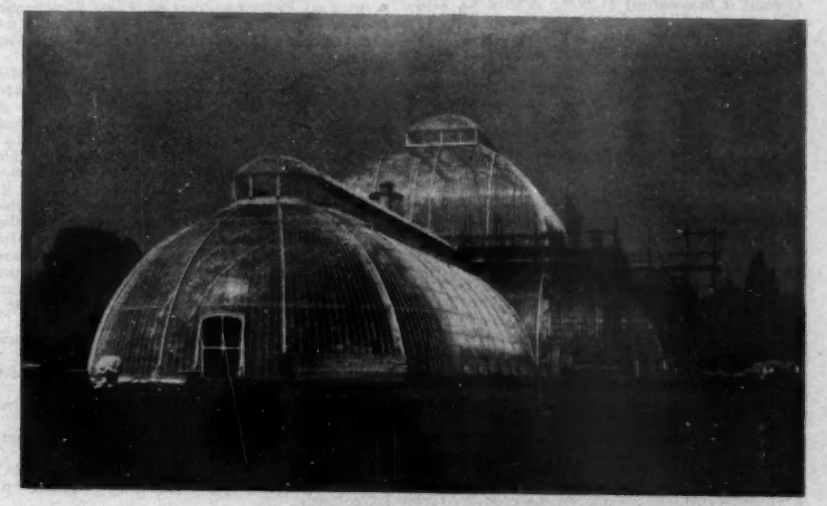
One almost feared the replacement of the greenery, but needlessly. To judge this, I recommend a stance on the east (far) side of the lake, fairly late in the day, when the 'frondage' is outlined within its glass case, having a quite Rex Whistler-ish outline and composition of its own. Moreover, those Queen's Beasts (which should surely have been discreetly 'emboscadoed' along the Broad Walk instead of squatting toadlike before such elegance) are decently obscured in those conditions.

The interior of the Queen's Cottage is a revelation. One had rather dismissed the nice but overscaled *cottage orné* exterior as unduly heavy and symmetrical. This is entirely explained by the interior, a surprisingly classical and formal setting for decorous playing at picnics by royal personages. The design —which includes two balancing, helical staircases, one of which leads nowhere—is credited to Princess Charlotte after her marriage to George III—a striking example of the cultivated Royal Amateur, as are the painted decorations attributed to the Princess Elizabeth in 1805.

The Ministry of Works have achieved a sympathetic refurbishing none the worse for suggesting a shoe-string budget. If the colour—generally a palish blue-green—seems a little unadventurous, this is probably authentic: and nobody could fail to be charmed by the original fireplaces and doorcases, and the restored pelmets with their gilded crossed spears and other trophies suspending a well-chosen glazed chintz.

The Orangery, fond as one was of its musty but aromatic Victoriana, will quickly console leave-aloners, restored to its original function. Outside I rather missed the splendid mixture of Kaisergelb and London fog, achieved some years ago and now replaced with a near approach to 'decorators' stone.' But inside, a new floor of black and white marble, with statuary borrowed from the museums, including the Florentine Francavilla's Apollo and Zephyr (c.1577) not to mention the stripling orange trees in tubs, a little self-conscious amid such grandeur, compose a *redivivus* in its way almost as impressive as that at Chiswick House. And all this still for 3d., with an extra tanner for the Queen's Cottage—surely the best value within reach of both Motopia and Submergia!

BASIL MARRIOTT.



Decimus Burton's Palm House, Kew, as restored.

SCHOOL BUILDING IN 1958

A Year of Substantial Progress

'EDUCATION in 1958,' the annual report of the Ministry of Education, published in June, comments that as a result of the good progress made with the building programmes of 1955, 1956 and 1957, the largest number of school places ever completed in one year became available (98,080 primary places and 196,830 secondary places). There was a temporary decline in the amount of new school building started but this trend would be reversed when a start was made with the five-year programme of school building envisaged in the White Paper on *Secondary Education for All*.

Cost limits for new schools were maintained throughout 1958. The tendency noticed in 1957 for tendering to become keener was intensified in 1958 and this made it somewhat easier to build satisfactory schools within the cost limits. In the last six months of the year, the basic net cost on tender of new primary schools averaged £145.6 compared with £146.7 a year previously and the limit of £154; the comparable figures for new secondary schools were £251.9, £258.2 and £264 respectively. Average areas per place were 40.4 square feet for primary schools and 71.4 square feet for secondary schools, compared with 39.8 square feet and 70.4 square feet a year previously.

The easier tendering conditions made it possible to encourage local education authorities to seek fixed price contracts (omitting the clauses allowing for fluctuations in costs of labour and materials) without increasing the cost limits. In the second half of the year, 23 per cent of tenders accepted for major projects were on a fixed price basis.

Good progress was made in 1958 with the programme of new buildings for technical colleges and a start was made on the task of expanding training colleges. The decision to spend £15,000,000 on providing by September, 1962, 12,000 extra places in training colleges represented a major development of building policy.

There was also a big increase in the number of school meals projects, following an announcement that it would be possible in 1959-60 to begin to improve the dining conditions at some existing schools. As much of this work involved extending and remodelling existing premises, useful knowledge was gained for the time when remodelling of old schools could begin.

The report also stated that 1958 was a year of re-appraisal of the Ministry's regulations and building procedures. By the end of the year a first draft of new regulations had been prepared.

SOCIETIES

RIBA COUNCIL MEMBERSHIP

Results of Elections

AT a general meeting of the Royal Institute of British Architects held on June 16, at 66, Portland-place, the results of the annual elections to the Council for the session 1959-60 were made public, as follows:

President.—Basil Spence, OBE, TD, ARA, ARSA (unopposed).

Past-Presidents.—Kenneth M. B. Cross, MA, DCL; Sir Howard Robertson, MC, RA, DLitt, SADG (both unopposed).

Vice-Presidents.—Norman H. Fowler (Leeds); A. G. Sheppard Fidler; Sir Hugh Casson; D. E. E. Gibson.

Honorary Secretary.—Richard H. Sheppard.

Honorary Treasurer.—Hubert Bennett.

Fellow Members of Council.—Hubert Bennett, *Sir Hugh Maxwell Casson, (2,115 votes); Clifford E. Culpin; E. Maxwell Fry; D. E. E. Gibson (Chessington) (1,797); Arthur G. Ling, (Coventry); *Eric A. Lyon (East Molesey) (1,633); Professor Robert H. Matthew, CBE, ARSA, MA (Edinburgh); Edward D. Mills.

Associate Members of Council.—*W. A. Allen (Garston) (1,858); A. W. Cleeve Barr; John C. Eastwick-Field; *S. A. W. Johnson-Marshall (1,827); Sergei Kadleigh; Peter F. Shepheard (elected Fellow June 16, 1959); John C. Stillman; *H. T. Swain (Nottingham) (1,146); Thurston M. Williams.

*Current election.

Licentiate Members of Council.—*Gwyn H. Morris (Coventry) (2,926); Dr. Thomas Sharp, R. W. Toms.

Ordinary Members of Council.—*Denis Clarke Hall (F) (1,222); Harold Conolly (F) (Chelmsford); Harry Durell (L.) (Newton Aycliffe); Professor R. J. Gardner-Medwin (F) (Liverpool); *Frederick Gibberd (F) (1,371); W. G. Howell (A); P. E. A. Johnson-Marshall (A); *Richard H. Sheppard (F) (1,427); L. Hugh Wilson (A) (Dullatur, by Glasgow).

REPRESENTATIVES OF ALLIED SOCIETIES IN THE UNITED KINGDOM OR THE REPUBLIC OF IRELAND

(1) *Six Representatives from the Northern Province of England.*—Professor J. H. Napper (F) (Northern Architectural Association); Professor R. A. Cordingley (F) (Manchester Society of Architects); M. G. Gilling (F) (Liverpool Architectural Society); Arthur Lazenby (A) (York and East Yorkshire Architectural Society); E. O. Robinson (A) (West Yorkshire Society of Architects); W. L. Clunie (F) (Sheffield, South Yorkshire and District Society of Architects and Surveyors).

(2) *Five Representatives from the Midland Province of England.*—Edward Holman (F) (Birmingham and Five Counties Architectural Association); T. A. Collins (F) (Leicestershire and Rutland Society of Architects); J. A. Wardley (A) (Northamptonshire, Bedfordshire and Huntingdonshire Association of Architects); E. H. Ashburner, B.Arch. (F) (Nottingham, Derby and Lincoln Society of Architects); A. W. Ecclestone (L) (East Anglian Society of Architects).

(3) *Six Representatives from the Southern Province of England.*—John Radford (A) (Devon and Cornwall Society of Architects); E. F. Tew (F) (Wessex Federal Society of Architects); David Beecher (F) (Berks, Bucks and Oxon Architectural Association); Frank R. Greenen (A) (Hampshire and Isle of Wight Architectural Association); Stanley E. Bragg (F) (Essex, Cambridge and Hertfordshire Society of Architects); Reginald Arthur Cooksey (F) (South Eastern Society of Architects).

(4) *Four Representatives of Allied Societies in Scotland: nominated by the Council of the Royal Incorporation of Architects in Scotland.*—J. A. Carrick (F) (Ayr); G. H. Lawrence (A) (Edinburgh); J. A. H. Mottram (A) (Edinburgh); T. H. Thoms (F) (Dundee).

(5) *One Representative of Allied Societies in Wales.*—John Lewis (F) (South Wales Institute of Architects).

(6) *Two Representatives of Allied Societies in Ireland.*—H. S. Robson (A) (Royal Institute of the Architects of Ireland); G. P. Bell (A) (Royal Society of Ulster Architects).

Representatives of Societies in Alliance with the Royal Institute Overseas.—Douglas E. Kertland (F) (The Royal Architectural Institute of Canada); Kenneth Mervyn Baskerville Cross (F) (Representative in the United Kingdom); (to be appointed) (Royal Australian Institute of Architects); (to be appointed) (Representative in the United Kingdom); Professor C. R. Knight (F) (New Zealand Institute of Architects); R. H. Uren (F) (Representative in the United Kingdom); H. A. P. Kent (A) (The Institute of South African Architects); Professor Sir William Holford (F) (Representative in the United Kingdom); H. N. Dallas (F) (The Indian Institute of Architects); Stuart Bentley (F) (Representative in the United Kingdom).

Representative of the Architectural Association (London).—H. T. Cadbury-Brown (F).

Representative of the Association of Building Technicians.—Kenneth J. Campbell (A).

Chairman of the Board of Architectural Education.—D. H. Beaty-Pownall (F).

Chairman of the RIBA Registration Committee.—S. Vincent Goodman (F).

Two Representatives of the RIBA Salaried and Official Architects' Committee.—(To be appointed.)

Chairman of the RIBA Allied Societies' Conference.—Norman H. Fowler (Leeds).

ARCHITECTURAL ASSOCIATION

Scholarships in Architecture, 1959

THE Council of the Architectural Association announce the award of the following Scholarships tenable at the Architectural Association School of Architecture:—

Sir Walter Lawrence Scholarship (value £180 per annum), Miss M. Dunbar (North London Collegiate School).

Minter Scholarship (value £180 per annum), D. M. Pollock (Ampleforth College).

Metal Window Scholarship (value £75 per annum. Presented by the British Metal Window Manufacturers' Association Ltd.). D. M. Cameron-Clarke (Haileybury).

Natural Asphalte Scholarship (value £50 per annum). Presented by the Natural Asphalte Mine Owners' and Manufacturers' Council), Miss A. K. Blair (Chelmsford County High School).

Three Scholarships donated by members of the *Architectural Association* (value £75 per annum each), N. C. P. Carver, Vaucluse, France (Ampleforth); M. J. Kathem (Portsmouth Grammar School); and N. P. Low (Westminster School).

Senior Metal Window Scholarship (value £50 per annum. Presented by the British Metal Window Manufacturers' Association Ltd.), R. B. Huddleston (Bournemouth Grammar School).

ASSOCIATION OF OFFICIAL ARCHITECTS

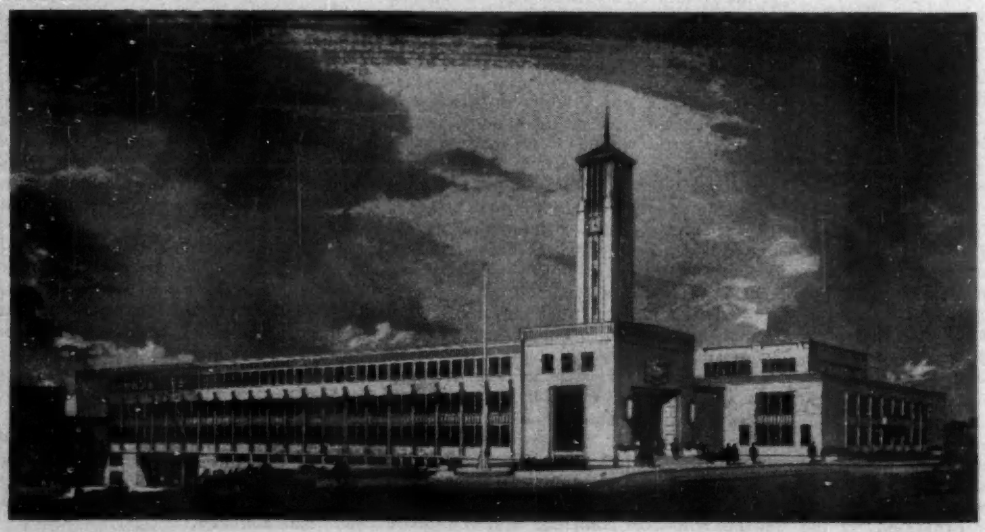
Members of Council Elected

The Association of Official Architects announce from 66 Portland-place, W1, that the following Members of Council have been elected on a Regional basis:

Berks, Bucks & Oxon, Albert E. Smith; Birmingham & Five Counties, James C. E. Tainsh and one place to fill; Devon & Cornwall, Michael K. Kirkbride; East Anglia, John H. Pogson; East Scotland, Dennis A. Forder; Essex, Cambs. & Herts., Norman P. Astins; Hampshire & Isle of Wight, J. F. Hudek; Hospital Boards, vacant; Liverpool, John H. Davies; London & Middlesex, Kenneth G. Jones, Thurston M. Williams; Manchester, Donald B. Carton and Alan Close; New Towns, John C. Whitney; Northants, Beds. & Hunts., Harold Hartley; Northern, Harry R. Clark and James Duxbury; Notts., Derbys. & Lincs., J. Belchamber and Eric H. Turner; Sheffield & South Yorks., Austin Ibrahim; South Eastern Region, Philip A. Clark and James H. Ecclestone; South Wales, John S. Davies; Wessex, Leonard J. Johnson; West Scotland, Ian M. T. Samuel; and West Yorkshire, Harry Judson and Ernest F. Smith.

Members of Council elected on a National Basis are:

Edgar H. J. Adkins, J. P. Allison, John T. Bell, R. J. F. Carter, G. A. Cole-Evans, Rex Dempsey, Geoffrey J. Foxley, Anthony Goss, Charles F. Kimm, Bernard C. Mitchell, Percival F. R. Osman and Moira Shield.



CIVIC CENTRE, Sutton and Cheam

Proposals for a new civic centre for Sutton and Cheam, estimated to cost £1½m., have been approved by the Borough Council. The building will have a clock tower 104 ft. high, an assembly hall to seat 550 people, a council chamber with galleries for the press and public, committee rooms, mayoral suite and offices for the various departments of the council, with movable walls, planned to allow for expansion to double the size in future years. The architect for the scheme is Romily B. Craze, FRIBA.

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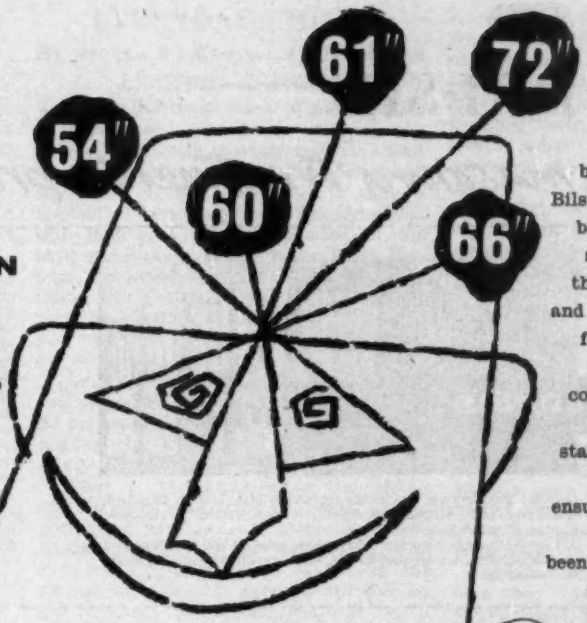

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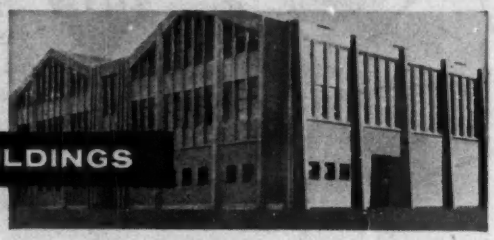

...NEW BUILDINGS

Central Engineering Works for Bryant & May Ltd by Beecham Buildings Ltd, Shipston-on-Stour, Warwickshire. Architects: Hastie, Winch & Kelly.
All prefabricated concrete components used in the construction of this building are treated with a water-repellent solution based on DRI-SIL 29.

...OLD BUILDINGS

All Saints Church, Hastings, mainly 14th century but contains older walling, part prehistoric. With passage of time the penetration of water through the walls has become more prevalent, resulting in the usual decay and fungus. Water penetration has been stopped with DRI-SIL silicone solution. (By courtesy of the Rector and Consultant Architect).

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Highway overpass after a rain storm. The treated part of the concrete fascia (right) has not absorbed the water and is much more visible than the untreated section on the left. Silicone treatments also prevent spalling or scaling due to frost action on concrete road surfaces.

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IAAS

President's 'At Home'

THE PRESIDENT of the Incorporated Association of Architects and Surveyors, Mr. R. E. J. Harding, FIAS, FIArb, AMSE, was at home to members during the afternoon of Saturday, May 23. The occasion took place at the headquarters of the Association, 29 Belgrave-square, London, and was attended by some 140 members with their ladies and guests.

Amongst those present were: the Mayor and Mayoress of the City of Westminster, Councillor Group Captain G. H. Pirie and Mrs. Pirie; the Deputy Mayor and Mayoress of Hove, Alderman C. A. Clarke and Mrs. Clarke; Councillor W. J. Clark, senior Vice-President of the IAAS, and Mrs. Clark; Major-General D. M. Dyer and Mrs. Dyer; Lieut.-Col. A. E. Henson, Past President of the IAAS; Mr. Howard Karslake, Vice-President of the Rating & Valuation Association, and Mrs. Karslake; Mr. J. Lester, President of the Institute of Quantity Surveyors, and Mrs. Lester; Mr. S. R. Nevell, Hon. Treasurer of the IAAS; Mr. H. M. Soar, Secretary of the Faculty of Architects and Surveyors, and Mrs. Soar; Mr. P. Russell Walker, Vice-Chairman of IAAS Council, and Mrs. Russell Walker.

THE INSTITUTION OF STRUCTURAL ENGINEERS

Annual General Meeting

AT THE AGM of the Institution of Structural Engineers, which was held at 11 Upper Belgrave-street, London, SW1, on May 28, 1959, the following honorary officers and members of council were elected for the session 1959-60 and will take office in October.

President: L. E. Kent, BSc(Eng.), MICE. *Vice-Presidents:* G. W. Kirkland, F. R. Bullen, F. G. Thomas, F. M. Bowen, D. D. Matthews, E. N. Underwood. *Hon. Treasurer* John Mason. *Hon. Librarian* G. C. A. Greetham. *Hon. Curator* G. M. Frost. *Members of Council:* R. W. Schofield, L. E. Ward, T. Bedford, W. Fitton. *Associate-Members of Council:* D. R. Sharp, N. T. Barrett. *Hon. Secretary* D. A. G. Reid. *Hon. Editor* H. C. Husband.

INSTITUTE OF QUANTITY SURVEYORS

Examination Awards

THE results of the examinations of the Institute of Quantity Surveyors, held in February, have been announced. Successes were gained by 377 of the 1,023 candidates who sat the examinations and 283 are to resit one or two subjects. The successful entries included 35 out of 69 in the Special Test, 217 out of 587 in the Intermediate, 113 out of 318 in the Final and 12 out of 49 for Direct Membership.

The following awards were made:—*Bronze Medal*: J. W. Luck, Hatfield. *Reginald Wood Prize*: A. I. Campbell, Angus. *Biscoe-Taylor Prize*: J. D. Holland, Norwich. *Special Awards*: Pak Hang Lam, Hong Kong; E. Carroll, Gillingham.

'Fire Protection of Structures'

A booklet entitled 'Fire Protection of Structures' has been issued by Messrs. Turners Asbestos Cement Co. Ltd., of Trafford Park, Manchester. This publication is fully illustrated with photographs, data charts and line drawings, and is a brief interpretation of the by-laws in relation to asbestos and asbestos-cement materials. Copies of the booklet on application.

EVERYDAY THINGS

By Arthur W. Kenyon, CBE, FRIBA

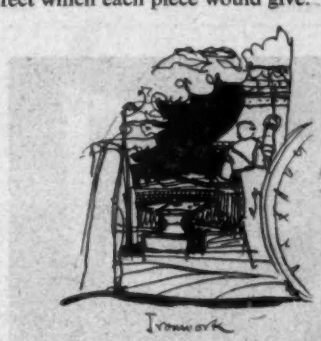
LXXXVII.—Ironwork

I WONDER how many of us there are who have gloried in watching the village blacksmith at work, and have seen him fitting shoes on to horses' hooves and smelt the burning as the warm shoe is applied? Perhaps we never thought of the skill that goes into the making of the shoe and fitting it snugly to the foot. Perhaps we never thought of all the other things the blacksmith did as well, but if you hung around his forge long enough you would see the wonders he could make out of iron.

I once worked with a blacksmith and I realised what a delicate touch he had with all his strength, for when I hit a piece of red hot iron on the anvil I found it generally went flat.

What a fascinating place the blacksmith's shop was, with its anvil, almost prehistoric in shape, on which the blacksmith appeared to do everything, and the furnace, exciting to watch as the smouldering coke is brought into life by the bellows. Primitive? Perhaps, but it still seems to be used as it was in ages past.

Ironwork is, in my opinion, one of the most difficult things to design because the thicknesses are so important. A round bar expresses something different from a square bar of the same size. All the members read in two dimensions and I am sure it was the blacksmith who designed the ironwork of old because he knew, from constantly handling the material, the effect which each piece would give. When



scrollwork and leaves with floral patterns were in vogue, the work called for the height of craftsmanship in execution; indeed, the making of a leaf was one of the tests in a Guild School, because it required exceptional skill.

These parts were made and assembled in the blacksmith's shop along with his other work of putting a metal hoop on a wheel and mending the farmer's plough.

Ironwork, like other parts of a building, can tell of history as we admire the lovely wire scrollwork of the Spanish, the flamboyant interlacing of the Gothics and the solidity and massiveness of the Classics.

The preservation of ironwork is very important, for it is amazing how quickly it rusts. I seem to remember being told that in days gone by, ironwork was dipped when red hot into oil to prevent it scaling. I wonder if this is still done. I find that one C. H. Smith, writing in *The Builder* in 1864, put forward the advantages of lime whitening for preserving iron from rust. He also noticed that polished steel could be preserved by beating powdered lime upon it and that bricklayers always smeared their bright trowel with damp mortar when leaving work. I suppose what was done in 1864 is still done today.

Whether we have lost the art of preservation or not, I hope at least we shall always preserve the village smithy, and the chestnut tree as well, where the smith can mop his sweating brow.

LONDON COUNTY COUNCIL

St. John's, Smith Square

AT THE Council meeting held on June 16 MR. ROBERT VIGARS asked the chairman of the Town Planning Committee, Mr. R. Edmonds, whether planning applications had recently been received by the Council in respect of the Church of St. John the Evangelist, Smith-square, Westminster, and if so, what decisions had been taken?

In reply, MR. EDMONDS said that there had been two applications. On one, by St. John's (Smith Square) Preservation, Ltd., for permission to use the building as a concert hall, the committee decided to grant permission subject to the views of the Minister of Housing and Local Government. On a second, to convert the building into offices for the Church Missionary Society, the committee decided to refuse permission since the office use would conflict with the development plan in which the area is zoned for residential use. Issue of the latter decision has been delayed pending receipt of the views of the Minister's Advisory Committee on Historic Buildings. These have now been received and accord with those of the committee and the decision will be issued.

BIRMINGHAM OVERSPILL

Pilot Scheme for Flint

THE North Wales town of Flint has signed an agreement with the Birmingham Corporation to build 100 houses for the city's overspill population. The houses are to be built on three sites already cleared for the purpose.

The success of this 'pilot' scheme will depend on whether light industries from Birmingham are attracted to North Wales to provide employment for the overspill families.

The terms of the agreement are that the Birmingham Corporation will pay £8 per year for each house over a ten-year period, during which time the Birmingham Housing Management Committee will have the right to nominate tenants from their overspill register. The Flint Borough Council will also receive the full £24 annual government subsidy on overspill houses for 60 years.

The history of Flint as a borough dates back to the year 1284, when a charter was granted by Edward I. The town is developing rapidly and is the centre of a thriving textile industry.

Development Plan Approved

The Minister of Housing and Local Government has approved with modifications the development plan for the Soke of Peterborough.

BUILDING IN THE CITY

Many New Schemes Approved by Court of Common Council

Following is a summary of recent decisions reached by the Court of Common Council in regard to new schemes of building and development in the City since the onset of the printing dispute prevented regular publication of the Court's proceedings:

Plans for New Offices Approved

THE Court of Common Council approved a number of City development projects at its meeting at Guildhall on June 11.

Messrs. Gunton and Gunton, Empire House, St. Martins-le-Grand, EC4, are the architects for a seven-storey extension to 'Empire House,' which is to be used as offices with seven shops on the ground floor, at 149—160 Cheapside and 39 Foster-lane. The lower ground floor is to be used for car parking and a basement for storage.

The Court also approved plans by Messrs. R. Seifert and Partners, of 28 Great Ormond-street, WC1, for the erection of an eight-storey office building, with a basement for use as storage and a restaurant at 11—22 Houndsditch and 22—38 (even) Duke's-place.

Messrs. Campbell-Jones and Sons, 9 Dowgate Hill, EC4, are the architects for the erection of a block of offices at Temple House, a site bounded by Cannon-street, Tower Royal, the Northern boundary of the London Chamber of Commerce building, Queen-street, Queen Victoria-street, Sise-lane and Budge-row, incorporating the site of Budge-row (part), Watling-street, Sise-lane and Tower Royal (part).

Messrs. Ellis, Clarke and Gallannaugh, 37 Soho-square, W1, are the architects for the erection of a new six-storey office building which was also approved. It is to be at 20-40 (even) Gresham-street, 26—27 King-street, 16—19 Lawrence-lane, 7—11 Mumford-court and 9—12, 12a, 13 and 14 Milk-street. There will be a car park and storage room in the basement and ventilation plant and boiler room in the sub-basement.

Blackfriars Scheme Approved

The Court of Common Council, on June 25, rejected a recommendation by the Improvements and Town Planning Committee that planning permission for the erection of a six-storey office building over Blackfriars underground station at 179 Queen Victoria-street should be refused again.

On a count of hands, the Court voted in favour of an amendment agreeing with the proposals of the applicants, London Transport Executive, and instructing the committee to 'seek the concurrence of London County Council to the grant of planning permission.'

The committee's reasons for recommending a refusal were that 'the erection of a building having six storeys above ground level would obstruct distant views of St. Paul's Cathedral, and would conflict with the present agreement with the Dean and Chapter as to height limitations of buildings around the cathedral.'

When the committee first recommended the refusal of the application, on March 5 last, the court referred the matter back for further consideration.

LLOYDS BANK, BUCKLERSBURY HOUSE.—A panoramic view of the City of London decorates the facia of the suspended ceiling that marks the central area in this new branch bank. The planning is unusual in that there is public circulation space around a central counter instead of the more usual banking hall layout with one straight counter. The lighting is also rather unusual with 33 recessed fittings providing overall lighting for the public area plus a number of decorative wall bracket fittings. The central clerks' area is illuminated by fluorescent tubes. The architects are Campbell-Jones & Sons and the contractors were Trollope & Colls, Ltd. The light fittings were all supplied by the General Electric Co., Ltd.

The Court also approved the drawings for the following proposed developments:—

Erection of an office building, including licensed premises, a bank and a retail shop, at parts of 8 and 9, and 10, 11 and 12 New Bridge-street, 1 Bridewell-place and 14 Bride-lane (Shingler and Risdon, FF/ARIBA, 47 Bedford-row, WC1);

Erection of a multi-storey office building, at 61 to 64, 65A, 65B, 66 and 67 Holborn Viaduct and land at the rear situated over the disused railway station next to Snow-hill and 37 to 44 Snow-hill (J. Seymour Harris and Partners, FRIBA, 3/4 Greenfield-crescent, Five Ways, Birmingham, 15).

The drawings and details of materials for the erection of a nine-storey office building with a basement car park, at parts of 30 to 35 Fetter-lane, parts of 5, 7 and 9 to 23 and part of 25 Great New-street, part of Nevill's-court and Goldsmith-court (C. Edmund Wilford and Son, F/ARIBA, 2 Green-street, W1).

'Distant Views' of St. Paul's Defined

A definition of what was meant by 'distant views' of St. Paul's was given at the Court of Common Council on July 9 by MR. B. G. ARTHUR, chairman of the Improvements and Town Planning Committee. He said that the term 'distant views' was usually applied to the views obtained from the bridges and various positions on the Victoria Embankment.

MR. F. C. ANDERSON asked if it was proposed to come to some decision about the Metropolitan Railway in the Barbican area 'right away without necessarily waiting for the answers to all the other problems arising in the area.'

MR. E. F. WILKIN, deputy chairman of the Barbican Committee, welcomed the sense of urgency implied in the question about the necessity for coming to decisions concerning the redevelopment of the Barbican area. His committee had invited other committees concerned to submit their observations on the broad principles of the scheme to the Barbican Committee by the end of July.

He hoped that those views would be available so that the Barbican Committee could consider them before the recess, so that a report could be submitted to the Court shortly afterwards.

'The covering of the Metropolitan Railway is obviously a fundamental principle affecting the whole scheme and one upon which a decision is required at the outset. I am sure my committee will consider it in this light,' he concluded.

Developments Permitted

The Court agreed to the recommendations of the Improvements and Town Planning Committee to permit the following developments in accordance with the plans submitted:

Cannon Street Station, between Cannon-street and Upper Thames-street and 9 to 11 Bush-lane: erection of a new station and office blocks, shops, a restaurant, engineers' drawing offices and laboratories, etc. (Developers: Southern Railway, Victoria Station.)

1 to 4, Amen Corner and 13, 13a and 14, Warwick-lane: erection of a block of twelve flats, a caretaker's flat and a penthouse. (Architects: E. Norman Bailey and Partners, 25/7 Catherine-place, SW1.)

Approval was given to drawings for the erection of single-storey shops and the improvement of the entrance to Hamilton House for a period of 20 years at 135 to 153, Bishopsgate. (Developers: Estate and Rating Surveyor, Eastern Region, British Railways, Marylebone Station, NW1.)

Approval was also given to drawings for the following: 'Temple House'; site bounded by Cannon-street, Tower Royal, the northern

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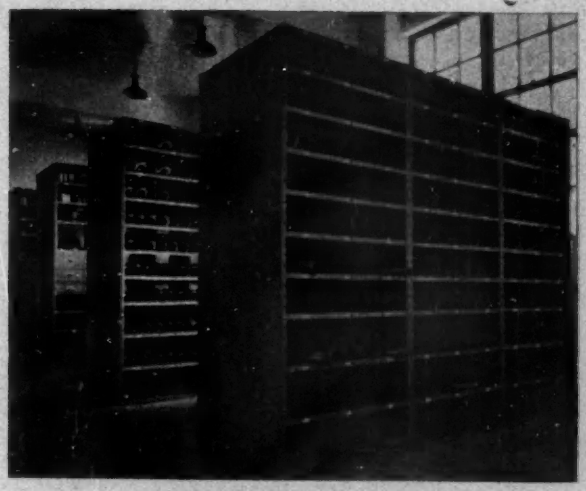

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boundary of the London Chamber of Commerce building, Queen-street, Victoria-street, Sise-lane, the northern boundary of 5, Budge-row and 71, Queen-street incorporating the site of Budge-row (part), Watling-street, Sise-lane and Tower Royal (part). Erection of a block of offices. Details of the forecourt layout in connection with the Temple of Mithras. (Architects: Campbell-Jones and Sons, 9 Dowgate-hill, EC4.)

The Court gave permission for the following development: 149 to 160 Cheapside and 39 Foster-lane.

Erection of a seven-storey office building, with a basement car park and ground floor shops. (Architects: Gotch and Partners, 8 City-road, EC2.) Before any works are begun, plans, sections and elevations to a scale of not less than 8 ft. to 1 in. are to be submitted for approval by the Common Council, showing a satisfactory layout for the car park and the architectural appearance of the building which must be in harmony with other buildings on the north side of Cheapside and fronting the proposed St. Paul's-place.

New 7-acre Redevelopment Unit Approved

Proposals for the establishment of a further redevelopment unit in the City of London were submitted to and approved by the Court of Common Council on July 23 by the Improvements and Town Planning Committee. The total estimated cost of the unit (Redevelopment Unit No. 3) is £2,196,000.

Having a total area of some 7.31 acres, the unit will comprise land bounded by: Aldersgate-street, Fann-street, Viscount-street, the northern and western boundaries of 13/15 Bridgewater-square, the northern and western sides of Bridgewater-square, the western boundary of 6/9 Bridgewater-square and Murray House, Barbican, and also includes Bridgewater-street, Cripplegate-street, Viscount-street, Brackley-street, the western boundary of Cripplegate Institute, Cripplegate-street, Golden-lane, the northern side of Sun-close, the City boundary, the western boundaries of 34/39 Beech-street, Beech-street and the western boundary of 41 Barbican.

The whole of the proposed unit is at present zoned for commerce and is part of the Barbican area which was the subject of a report to the Corporation by Messrs. Chamberlin, Powell and Bon. The Town Planning committee's report states that for the purpose of drawing up draft financial estimates of expenditure a form of layout for the land within the new unit has been prepared, based substantially on the proposals for the area north of Barbican.

This layout provides for a 'mixed' development comprising residential accommodation and commercial buildings, including accommodation for a large railway parcels depot, fire station, etc, to be removed from the present sites in Whitecross-street, together with the widening and improvement of certain streets in the area.

'We desire to emphasise, however, that the layout to be adopted for permanent redevelopment of the area north of the Barbican must be dependent upon the final decision of the Court upon Messrs. Chamberlin, Powell and Bon's report,' say the committee.

After the chairman of the committee, MR. BENJAMIN ARTHUR, had stressed the necessity for a decision to save delay, the Court approved the proposals without discussion.

After their report on reconstruction, the committee then submitted one on demolition. This related to the Tower of St. Alban, Wood-street. The committee recommended, with the concurrence of the Special Committee, that appropriate provisions be inserted in the next Various Powers Bill empowering the Corporation to take down the remains of the Tower to enable the site to be absorbed into the proposed widening of Wood-street.

However, after the Town Clerk had announced the receipt of a letter from the Ancient Monuments Preservation Society containing reasons why the tower should not be demolished, it was decided to postpone a decision on the recommendation before the Court so that the letter might be considered by the appropriate committee.

The Court approved an application for the erection of a 16-storey building for use as an automatic car park, with showrooms on the first floor, on a site in Redevelopment Unit No. 34. The site has already been earmarked for car-parking. The same application also contained proposals for an eight-storey building for use as showrooms and licensed premises with a warehouse above. These developments will be on the site of 140 to 156 Houndsditch, 2 to 38 Stoney-lane, 14 to 18 Back Gravel-lane, 2 to 7 St. Botolph-row 1 to 6 Gun-square, 15 to 21 and 22 to 32 (even) Gravel-lane and Incorporating the highway of Gun-square and part of Gravel-lane. (Howard Lobb and Partners, Gower-street, W.)

Other proposed developments which received approval were: 3a, 4a, 4 and 5 New London-street, 11 Hart-street and 69 and 70 Mark-lane for an office building with shops on the ground floor next to New London-street, and with a basement car park in accordance with plans submitted and subject to certain conditions. (City of London Real Property Co., Ltd., Mark-lane, EC.) A site bounded by Great Tower-street, Tower Hill, Lower Thames-street and proposed new road from Lower-Thames-street to Great Tower-street for a new office building in accordance with an outline application. (Harry Watney, Fredericks-place, EC2.)

A site bounded by Carter-lane, Knightrider-street, proposed forecourt about St. Nicholas Cole Abbey, Queen Victoria-street and the western boundary of St. Paul's Vista for an office building with restaurant or shops and incorporating licensed premises, a post office, and a car park in accordance with an outline application. (Gordon Stanham, Fenchurch-street, E.C.)

The Court also approved drawings submitted in compliance with conditions of permission which has already been granted for a multi-floor car park at 158 to 170 Aldersgate-street, 1 to 5, 16 to 22 and parts of 6 and 11 to 15 Manchester-avenue, part of Queen-square, and 5 and 6, parts of 1 to 4 and 7 Queen-square, Bowman's-buildings, 3 to 6 and part of 1 and 2 Half Moon-Court and parts of 30 and 31 Bartholomew-close. A headquarters' building for London Salvage Corps at 135 to 146 Aldersgate-street, 89 to 92 Long-lane and 17 Newbury-street. A twelve-storey nurses home, St. Bartholomew's Hospital, Little Britain. A new building for use as offices (Kempson House) at 71 to 76 Houndsditch and 35 to 37 Camomile-street. An office building with basement, ground and first floors at 38 Walbrook.

LMBA

Police Commissioner on Locks

CAPTAIN H. P. GREGORY, Assistant Commissioner of the City of London Police, was the guest of honour of the LMBA at a luncheon in the Horseshoe Restaurant before the July meeting of the Council. The President, Mr. K. J. Pearce, presided.

In an address to the Council Captain Gregory gave a brief outline of some of the methods which building firms might adopt to prevent attacks on wages, and urged firms to get into touch with their local police headquarters for advice on the subject. He also urged that special consideration be given to the subject of locks, both inside and outside new blocks of buildings. An ordinary four-lever lock could be opened with nine simple home-made keys: a five-lever lock would involve the use of some five hundred keys.

At the end of the meeting MR. STANLEY FARROW gave a graphic account of his recent visit to Australia, on which he represented the National Federation at the centenary meeting there of the Australian Institute of Builders.

GREEN BELT ALONG SOUTH COAST

Strong Objections by Builders

THE Hampshire area of the Southern Counties Federation of Building Trades Employers was among the objectors at the public inquiry into Hampshire County Council's plan to impose a green belt in the south of the county, stretching along the coast from West Sussex to Dorset.

Presenting the objection, MR. E. A. VAUGHAN-NEIL said the building industry foresaw that if the local planning authority had their way and the green belt proposal was confirmed by the Minister, conditions that were now onerous would become even worse. The restrictive attitude of planning authorities would be strengthened.

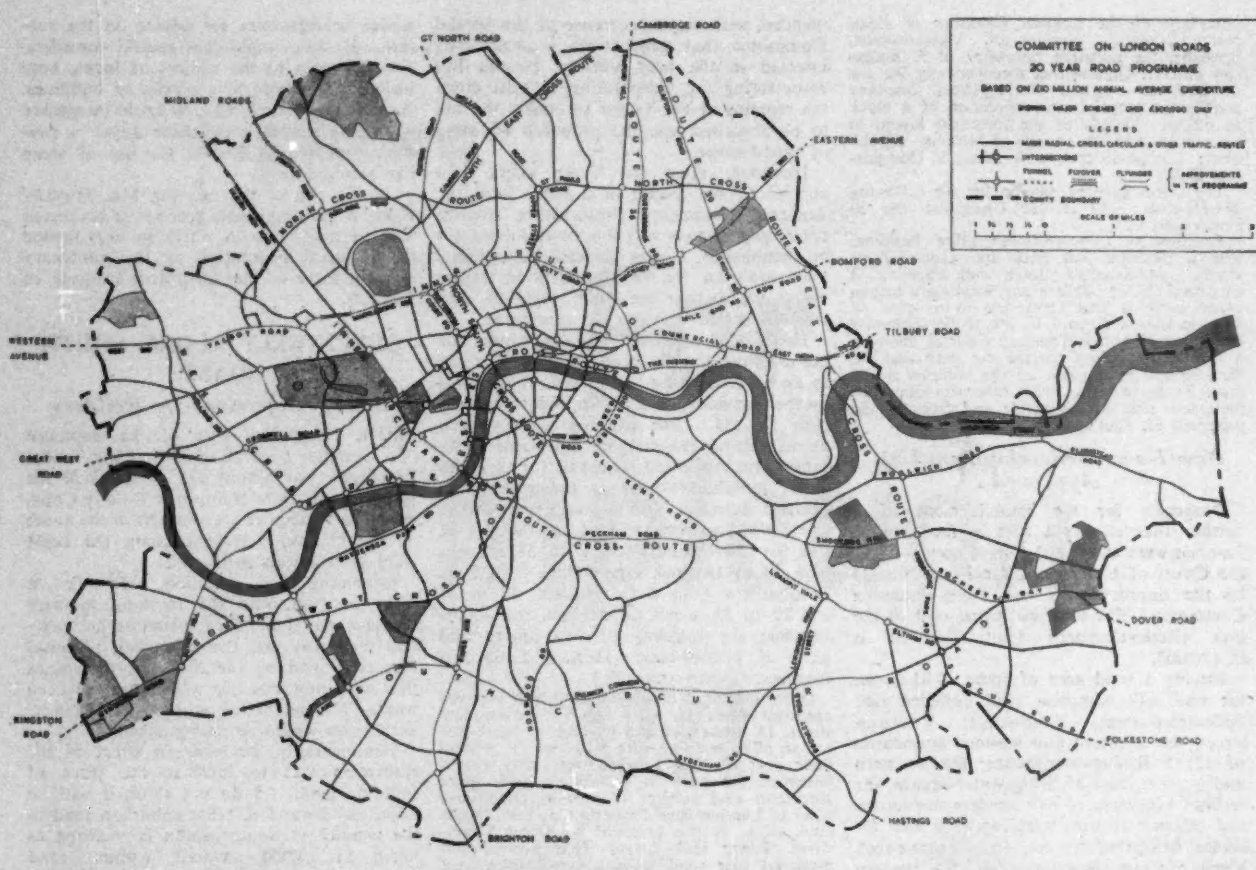
Demonstrably, he said, an effect of the restriction was to increase the price of building land. 'I do not think it will be disputed,' he added, 'that suburban land in the vicinity of Southampton is realising as much as £7,000 an acre, without road charges. The effect of this trend is that the ordinary builder is finding it more and more difficult to do the job allotted to him in the community. He is supposed to be getting on with building houses, and it is Government policy, frequently reiterated, that this should be a property-owning democracy. The Federation for whom I am speaking fear that if this green belt proposal goes forward in its present form, the provision which has been made for houses will tend to favour the local housing authority. You will have the remarkable situation in which the County Council are frustrating declared government policy.'

The Federation asked that the green belt should be rejected, not because it was wrong, but because it was premature. It should follow the review next year of the county development plan.

For the planning authority, MR. J. H. MARTIN said their whole case was 'Now is the time—before it is too late.' If there was to be a green belt at all, the time had to come when its effects would be to slow down the rate of house-building.

Safety in Building

Following an Australian-wide campaign to improve safety in the building industry a permanent safety organisation is to be set up. More than 120,000 workers who co-operated in the experiment have now formed safety committees on building projects. They will meet regularly to discuss safety improvements. Master builders will co-operate through a general safety committee on which unions and insurance companies will be represented.



IMPROVING LONDON'S ROADS

A Plan to Overcome Congestion

'LONDON'S traffic is dangerously near to a total standstill,' says the report of the Committee on London Roads published on July 24. The committee, under the chairmanship of Mr. Richard Nugent, MP, Joint Parliamentary Secretary to the Ministry of Transport and Civil Aviation, have proposed a three point attack on the problem without spoiling the traditional character of the capital. Two programmes have been drawn up; the first, to cost £120m., is based on annual expenditure of £6m. over a twenty-year period, and the second, to cost £200m., based on annual expenditure of £10m. over the same period.

Outlining the task the report states that the main traffic problem is congestion at the centre aggravated by parked cars clogging not only the main arteries, but also minor streets which often afford alternative routes. Most of the delays occur at intersections and more especially at major ones where the proportion of turning traffic is highest.

In both programmes emphasis is laid on the improvement of existing roads by widening, by improving major intersections where congestion is greatest, and by removing bottlenecks, mainly on the inner circular route and the intersecting cross routes. At certain junctions the principle of grade separation will be applied by the construction of fly-overs and underpasses. At intersections where the proportion of turning traffic is high, roundabouts will be provided. The possibility of incorporating grade separation at these will be considered at a later date having regard to the increase of traffic and the effect on the amenities of the neighbourhood. The £200m. programme includes additional schemes concentrated on the extension of certain main radials into London, the inner circular route and the cross routes. The schemes have been designed to increase traffic capacity during the working day by approximately 50 per cent over the 1956 volume.

The committee further suggest that the traffic needs of London can more satisfactorily be met if, in addition to the implementation of at least the £120m. programme, a progressive development of parking meter schemes be put into effect together with the planned provision of off-street parking garages (e.g., multi-storey car parks) and the strict enforcement of 'no waiting' regulations.

Since 1951 a policy whereby developers of land are required by the Council to provide car-parking facilities for new buildings as a condition of consent to their planning applications, has helped to steady the situation. Although many thousands of car-parking spaces have been provided in this way, the majority of the development in central London consists of older buildings for which no space exists for such provision. The question of providing off-street car-parking facilities, states the report, is one that requires considerable thought. Site and building costs in central London may amount to £1,500 per car space and consequently the economic charge would be in the region of 12s. 6d. per day assuming an 80 per cent day time occupation. This is obviously prohibitive and the financial risk involved for private enterprise too great. These considerations form the bases of the opinion that financial support from the Government, at least at the outset, would be desirable.

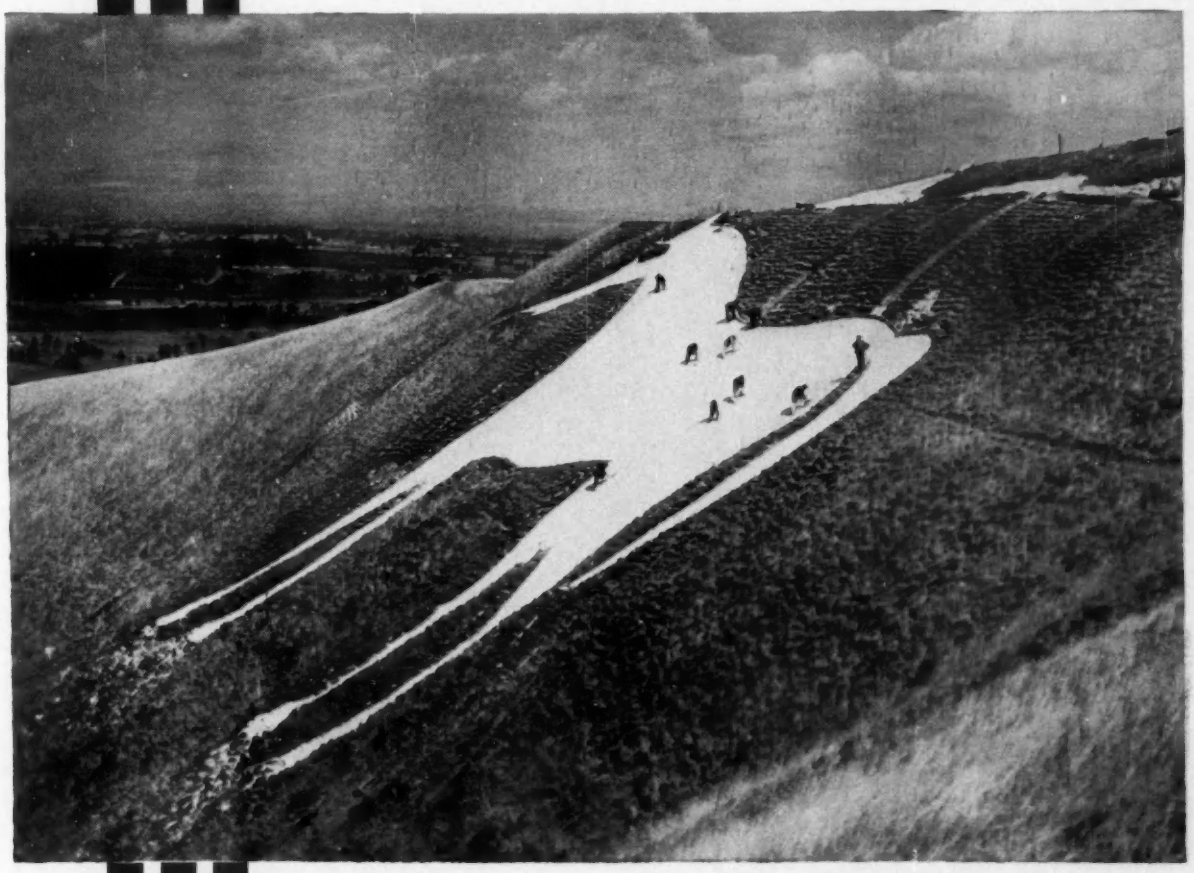
It is estimated that the rehousing liabilities for the road programmes will involve some 19,000 persons (requiring at least 5,000 dwellings) for the £120m. scheme, and some 37,000 persons (requiring at least 10,000 dwellings) for the £200m. scheme.

The safety and convenience of pedestrians is no less important than the provision for increased traffic and enabling it to move more freely. Where major intersections and busy roads are improved to let traffic flow continuously, it will be necessary to provide for the segregation of vehicles from pedestrians. The committee advocate the wider use of subways and upper level walkways.

Over the question of Urban Motorways (e.g., the 'A Ring,' the 'B Ring' and the Riverside Highway) the report states that, although such ideas may have a place in London in the future, it has not been possible to reach any conclusions on the merits of these projects since their construction is not feasible within the foreseeable financial limits.

The report is published by HM Stationery Office, price 4s.

The White Horse of Westbury*



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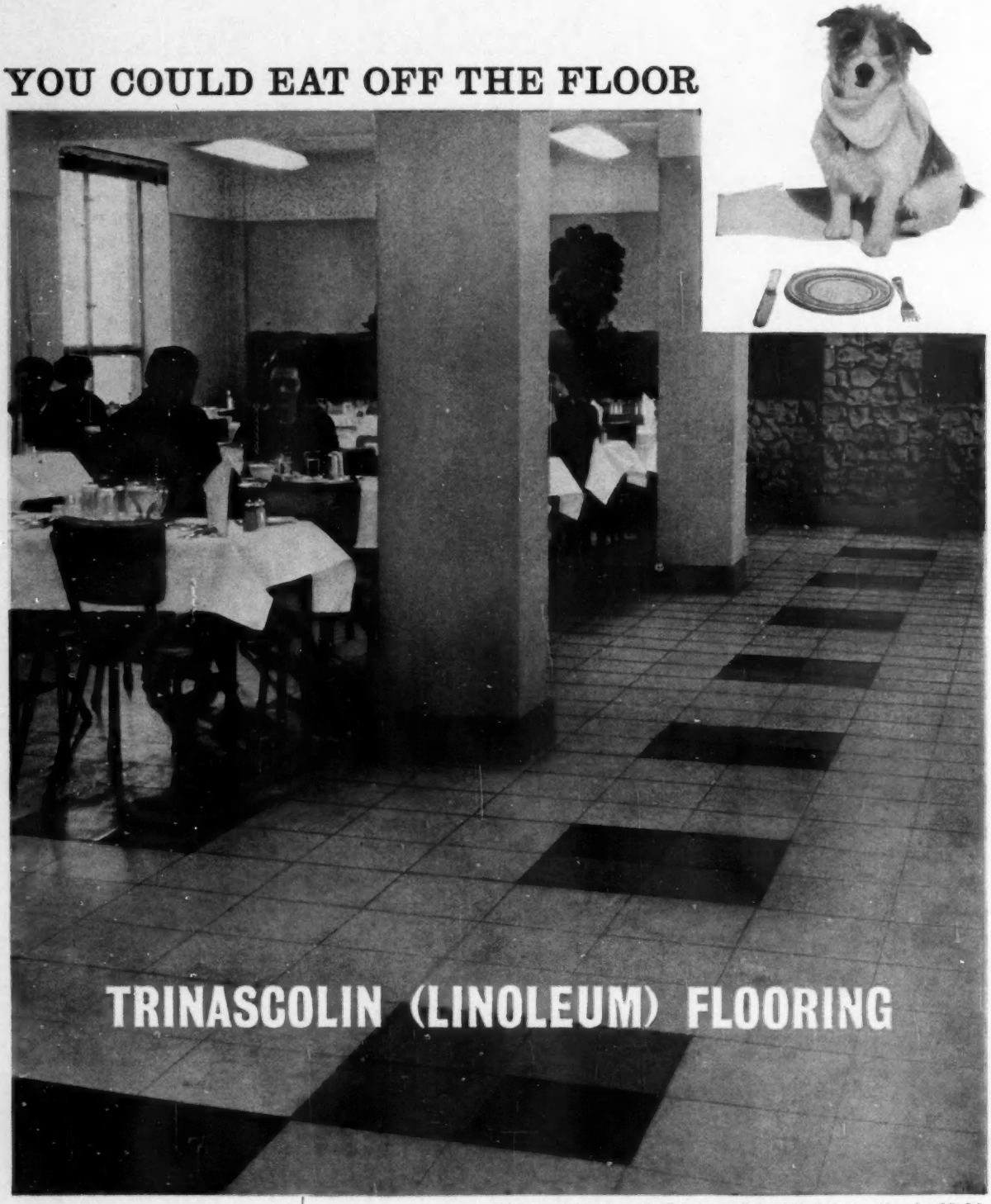

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FORTY YEARS: A HOUSING RETROSPECT

By C. W. Craske, MM, FRIBA(Ret)

IF you had visited Birmingham in the autumn of 1919, you might have seen a platform erected in front of the Council House, with the City Police Band seated thereon, about to perform the standard selection from 'The Maid of the Mountains,' and other popular favourites of the day. Also seated on the platform would be the Director of the newly constituted Housing and Estates Department, looking a little embarrassed at such unaccustomed publicity.

The object of this demonstration was to promote the sale of Housing Bonds, the public being further urged by a plentiful display of posters bearing slogans. It is interesting to recall that the city was quite prepared, as always, to set about the job without waiting for help from the Government; but this was soon forthcoming under the Addison Act of 1919. Under this Act alone, more than 200,000 houses were built by local authorities during the first ten years after the war.

Although inexperienced, for the greater part, in the design of 'houses for the working classes,' architects who had done little professional work of any kind for five years joined the new movement with enthusiasm. My own chief at Birmingham, the late Mr. W. I. Travers, FRIBA, often spent the night at his drawing board, preparing plans for committee on the morrow.

Large authorities made their architects chief officers or deputies; smaller ones engaged architectural assistants, generally under borough engineers and surveyors. As an assistant I went to Willesden in 1920, thence to Greenwich in 1924, where I stayed. Despite earnest efforts on my part to widen my experience with other kinds of work, I was never allowed to do anything but housing. Perhaps it was as well.

Makeshift Methods and Materials

Just as happened again in 1945, basic materials were hard to get, and prices rose rapidly. Bricks being particularly scarce, various alternative ways of building walls were proposed and tried out. The more rational methods (each of which was called a 'system') used concrete—either in the mass, poured between rising shuttering, or (more often) in precast slabs, generally in two leaves with a cavity bridged by wall-ties. Several of these systems were very good, and examples can still be seen in sound condition.

The 'Atholl' steel house seemed to have a great future, and should have been persevered with. Terracotta manufacturers entered the field, but the blocks they produced were only suitable for masons. A firm that acquired a slate quarry, and offered slabs like tombstones for cladding, didn't last long. As soon as English bricks became available, they soon ousted all competitors.

The English clay tile industry was less successful. For a few years we made do with the picturesque and excellent interlocking tiles of Marseilles, Courtrai, and Tournai. Then someone hit upon the bright idea of making much the same thing in concrete. You can see examples of a prototype, made by the 'Everlasting Tile' Co., Ltd., on some of the older housing estates to-day. The concrete tile came to stay, and its clay rival never quite regained its former place in the field of small housing.

Structural timber was also scarce, but we were never rationed; if you could get it you could use it. Economies were sought in reduced standards of construction. We had to drop the old rule-of-thumb for depth of floor joists, which was to divide the span in feet by 2 and add 2, the result being the depth in inches. In practice, 7 in. became the regular depth, whatever the span, and the spacing was increased.

Early Housing Standards

First attempts to do without joists at ground flood level led to disaster. Site concrete (often no thicker than 4 in.) had brush-coated flooring nailed to it direct, or on wood fillets. To be sure, there was supposed to be a coating of bitumen over the concrete, but this was often too thin and patchy to be of much use. The unforeseen but inevitable attack of dry-rot followed within a year. Thousands of pounds were lost in rectifying this error, but much was learned about dry-rot, which had not previously been seriously studied. At this most opportune time the Building Research Station began its helpful service to all in structural difficulties.

The Housing Act of 1924 (Wheatley) was generous in its planning standards, allowing up to 950 ft. sup. for a 2-storey cottage. This led to the general provision of 3 bedrooms, a living room, parlour, and sometimes a small kitchen or scullery. Minimum sizes for rooms were very much as they are to-day, excepting the living room, which could be smaller on account of the parlour. A 2-bedroom house was allowed 4 persons, 3-bedroom=5, 4 bedroom=7. A small child counted as half a person.

In order to qualify for subsidy, every house built after the war had to have a fixed bath, but it was not until 1924 that the words were added: 'in a bathroom.' Previously, the bath was generally put in the kitchen, under a table top, near the copper, from which hot water was supplied either by gravity or by a syphon valve such as the 'Leighway.' In this position the bath could readily be used for the storage of coal and firewood; and I daresay it was often so used, though I never came across an instance myself.

Rules for density of houses were set out in Ministry of Health Circular 520, dated August 20, 1924. We were not to exceed 8 houses per acre in an agricultural parish, or 12 elsewhere; but, in elegant language, the circular went on to say: 'Where the local authority desire to exceed these standards, the Minister will wish to be furnished with the considerations which have led the local authority to consider that the normal standard should be exceeded in the particular case.'

Some three years later, it was realised that a house of 950 ft. was costing too much to build, and the Ministry ordered a somewhat drastic reduction. 'The Minister is advised,' said the circular, 'that an adequate 3-bedroom house can be planned within a floor area of 760 sq. ft.' It was a difficult planning problem that now had to be solved.

We worked loyally to these restrictions, under the willing guidance of senior

Meridian House, the first block of flats to be built by the Greenwich Borough Council, which was opened in 1935. The photograph was taken upon completion. At about this time land shortage was compelling local authorities in London to abandon the building of houses at 12 per acre and to build upwards in order to increase densities.

officers of the Ministry, to whom too little credit has been given for their help to local authorities during the early and largely experimental years.

The Chief Architect, Dr. Raymond Unwin, brought to the Ministry the wealth of knowledge and experience that he had gained in the development of garden city and suburb. He was very approachable, and would gladly discuss your design down to the smallest detail. In his absence, the same friendly expert criticism was supplied by his deputy, Mr. S. Pointon Taylor. I have very pleasant recollections of the help and encouragement which these architects gave to one who was still a beginner.

Fittings and Finishes

Standards of equipment and internal finish were at first so low as to give a very primitive appearance. It must be noted, however, that in the early years new housing was geared to slum clearance; old dwellings could only be demolished as and when new were provided. The original tenants might indeed find accommodation elsewhere, but new houses aided by subsidy were strictly for the 'working classes'; and the notion that it was the duty of a housing authority to provide for all grades of society was not then recognised.

In this connection it is of interest to see how the term 'working classes' was defined. The Act of 1925, repeating an earlier definition, said that the term included 'mechanics, artisans, labourers and others working for wages, hawkers, costermongers, persons not working for wages but working at some trade or handicraft without employing others, except members of their own family, and persons other than domestic servants, whose income in any case does not exceed an average of three pounds a week, and the families of any such persons who may be residing with them.' Away back in 1915 it had been held that a chauffeur might be a member of the working classes (White v. St. Marylebone Borough Council).

The provision of a bath as a standard fitting has been mentioned, and even when a bathroom was provided it was often found convenient to put it downstairs, so that hot water could be obtained from the copper. Nonetheless, it was felt that other means should be explored, and I was sent one day to look at an imported bath, provided with its own apparatus for heating the water. This consisted of a row of gas jets running all along the underside of the bath, controlled by a single tap. The advantage was claimed that the user could 'hot up' the water again when it began to cool off; but as it seemed to me that he would probably be unconscious by that time, I reported against the invention, and I am not aware that any specimen was sold. The properly designed gas water heater was, however, soon to become a valuable aid; and the bathroom could then easily be planned at bedroom level. What was more, you could have a lavatory basin; and our plans from 1930 onwards always provided for this fitting.

The old brick-built copper died hard, but was replaced in the early 'twenties by one of cast iron, self-setting but still requiring its own brick flue. You therefore put it as close as possible to the main chimney breast, so that the flue could go up with that which served the 'Larbert' range, or the newly invented 'Interoven' or 'Servall.' For many years, solid fuel was preferred to gas or electricity for cooking apparatus.

In the course of what was called 'interior decoration' the kitchen, bathroom and wc originally got nothing, being usually unplastered. Other walls were distempered; and the very first coat was often enough to set up a plague of eruptions on the surface of the plaster, known as 'popping and pitting.' The cause of this unsightly defect goes back to the old practice of running the lime of the setting coat into putty 'one month before using.' (Macey, 1904.) This process was carried out in the open, allowing fragments of coke breeze, unslaked particles, and other impurities to settle in the pit unchecked.

Ceiling board did not come into general use much before 1930. Up to that time, ceilings were still of lath and plaster; and sizeable pieces would from time to time fall into the Sunday dinner, because the technique of making a firm key was rapidly becoming lost. After a number of claims for the damage done by such mishaps, the battening of ceilings was carried out whenever the appearance of cracks warned us of impending accident.

Stain rather than paint was used wherever possible. The 'Woco' Columbian pine door, together with its rivals, took stain admirably, and there was very little other woodwork to paint. A picture rail was allowed in the living room; and it is a sad commentary on the times that we thought it well worth while to detach it from the wall, to make easier the application of the blow-lamp.

Achievement

Up to the end of March, 1930, the number of State-aided houses completed since the end of the war was given as follows (Henderson & Maddocks' 'Housing Acts'):—

1919 Act (Addison)		213,821
1923 Act (Chamberlain):		
By local authorities ..	73,895	
By private enterprise	351,232	
By public utility societies	11,516	
		436,643
1924 Act (Wheatley):		
By local authorities ..	283,784	
By private enterprise	4,112	
By public utility societies	680	
		288,576
	Grand total	939,040

The switch from private enterprise to local authority activities, after the passing of the Wheatley Act, is noteworthy.

It was estimated that about 500,000 houses of comparable size, unaided by the State, were built during the same ten-year period. As the original survey of post-war needs, made in 1919, put the figure of the shortage at 800,000, it would at first sight seem that a surplus had been created. As the years passed, however, with very little impression on the waiting lists, it was realised that the initial estimate was very wide of the mark. By 1930, it was considered that the shortage of houses for letting, at rents which the 'working classes' could afford, was still over half a million.

In that year, taking the country as a whole, the cost of a three-bedroom non-parlour house was about £350. In London we could not build such a house for less than £400—a figure which had only been made possible by drastic cuts both in size and quality. But during the last few years between the wars restrictions were gradually relaxed; and by 1939 we were building both houses and flats at about £500 per dwelling, so greatly improved in every respect that offers and inquiries were actually received from would-be purchasers.

The Block of Flats: 1935 Onwards

One fine day in 1935, the Mayor, Aldermen, Councillors and chief officers of the Greenwich Borough Council proceeded in state to a little side-street off Blackwall-lane to open the first block of council flats, named Meridian House. Similar ceremonies were taking place in all parts of London, for it was no longer possible to build houses at 12 to the acre, and there was no alternative but to build upwards at about twice that density.

I have refreshed my memory of that block by a recent visit. I was prepared to regard it with that curious mixture of pity and contempt with which we commonly regard the works of nearly a quarter of a century ago. To my agreeable surprise, it didn't look nearly so bad as I expected, and the reason was to be seen in that wonderful realisation of the possibilities of colour, which seems to have dawned upon us in the last few years. You see, at the time in question, practically the only colours on our palette were Brunswick green, and a peculiarly hideous shade called 'maroon.' Meridian House had originally been 'done' in one or other of these; but as I looked at it recently, I was delighted to see every front door a different colour, the old black balcony balustrade painted cream, everything as bright and clean as a new pin, and by no means unattractive.

To be sure, you have only to enter the common staircase to find walls of dull stocks with a Southwater dado; and I dare say the interiors of the flats lack a good many desirable things. The surrounding courtyard, too, is of dull grey tarmac; the little forecourt where we sowed grass seed is black and muddy. But the general effect is encouraging.

From Meridian House, which is four-story (I submit a photograph taken on completion) we proceeded to five-storey blocks, then considered very daring for a direct-labour squad with only timber scaffolding. The pre-war bricklayers and scaffolders, all of whom I knew by name, are veterans now; many of them have passed on. They would of course have been amazed, not to say alarmed, by the 10 to 15-storey blocks that are now becoming commonplace. And not without reason; for the technical and management problems involved are as yet not fully appreciated. I consider myself fortunate, in having reached retiring age just at the right time to be able to behold these wonders with complete detachment.

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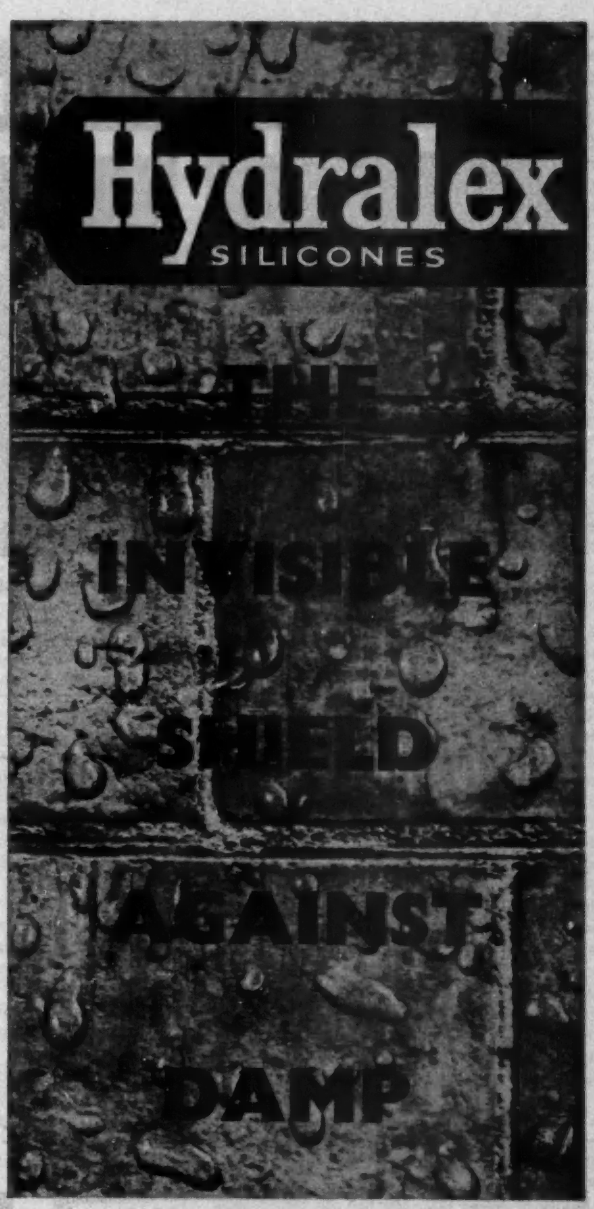

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Location of Industry and Population

A Paper at the Town Planning Institute

PROFESSOR J. SYKES, OBE, read a paper entitled 'Location of Industry and Population' at a meeting of the Town Planning Institute, held at the Livingstone Hall, Westminster, earlier this year. Following are extracts from this paper:—

I propose to look at a few aspects of the subject as they concern an economist interested in the control of industrial location initiated by the Distribution of Industry Act, 1945.

A start can be made by asking what changes have taken place in the distribution of insured workpeople between the several administrative regions of the country during recent years. The following table offers figures of such changes between 1949 and 1957. Earlier figures have not been used because it is difficult to compare them accurately with later figures.

TABLE 1
REGIONAL CHANGES IN NUMBERS OF INSURED PERSONS, 1949–57*
(000's omitted)

	1949	1957	*Change*	*Percentage Change*
Great Britain ...	20,321	21,850	1,529	7·5
Eastern	1,044	1,232	188	18·0
Southern	919	1,080	161	17·5
Midland	1,949	2,138	189	9·6
North Midlands ...	1,379	1,501	122	8·9
South Western ...	1,049	1,132	83	7·9
London and South Eastern	5,109	5,494	385	7·7
E. and W. Ridings	1,769	1,869	100	5·6
Northern	1,219	1,286	67	5·4
Wales	911	956	45	4·9
North Western ...	2,886	2,997	111	3·7
Scotland	2,087	2,165	78	3·7

* Figures for May. Dorset was taken away from Southern region in 1957 and added to South Western region. The figure for each of these regions for 1957 has been based on the growth shown by each region in the previous year.

The average increase of insured numbers in Great Britain during the eight years 1949-57 was 7.5 per cent. The average increase for particular regions varied from 18.0 per cent down to 3.7 per cent. This is a not inconsiderable variation. The high rates of growth in Eastern and Southern regions are worthy of remark. If to these are added London and South Eastern region, these three contiguous regions accounted for nearly one-half of the total growth in Great Britain, although in 1949 they accounted for not much more than one-third of Great Britain's insured figure. Another fifth of the total growth in Great Britain was jointly accounted for by the two Midland regions.

Development Areas

No more than one-fifth took place in the four regions (Scotland, Northern, North Western and Wales) which contain the Development Areas scheduled under the Distribution of Industry Act, 1945. Since these four regions contained in 1949 virtually the same proportion of Great Britain's insured population as the three regions of London and South Eastern, Southern, and Eastern, it is striking that the former should have increased their numbers by only one-fifth compared with nearly one-half by the latter.

Stated differently, out of every ten insured persons added to these two groups of regions during the period, London and South Eastern-Southern-Eastern accounted for seven, but North Western-Wales-Northern-Scotland accounted for only three.

The Barlow Report, published in 1940, cited figures showing the percentage growth of the insured population during the period 1923-37. These figures are not comparable with those of Table 1 because the present-day regions are not similar to those named in the Barlow Report, and the insured numbers covered by the Barlow figures extended over fewer industries and a smaller proportion of Great Britain's occupied population than the figures for 1949-57. Nevertheless, the figures for 1923-37 show that, compared with a rise in Great Britain of about 22 per cent, the number of insured persons in London and the Home Counties rose by nearly 43 per cent, in the Midland counties by over 28 per cent, in West Riding, Notts and Derby by 15 per cent, in mid-Scotland by under 10 per cent, in Lancashire by under 8 per cent, in Northumberland and Durham by under 5 per cent, and in Glamorgan and Monmouth they fell by over 4 per cent.

Continuing Trends

These trends are not conspicuously different from those of 1949-57. For, in both periods, insured numbers grew by most in the south eastern counties; the next largest growth occurred in the midland counties; and the counties where the development areas are situated recorded the smallest growth—the south Wales counties actually losing numbers.

If it is indeed the case that the post-1949 trends of change in the insured population of the eleven administrative regions are a replica—or continuation—of similar trends operative throughout the inter-war period, is it not a matter of interest to town planners? For, although not the only factor, do not changes in the distribution of the occupied population cause changes in the same direction in the distribution of the aggregate population as between the eleven regions?

The next table bears upon this matter. The regional order of Table 1 is shown in the figures in brackets.

TABLE 2
ESTIMATED REGIONAL CHANGES IN POPULATION, 1949–57†
(000's omitted)

	Number	*Percentage Change*
Great Britain	1,256	2·6
Eastern	414	13·6 (1)
Southern	234	9·1 (2)
North Midlands	157	4·7 (4)
Midland	185	4·2 (3)
South Western	96	3·2 (5)
Northern	54	1·7 (8)
East and West Ridings ...	37	0·9 (7)
Wales	24	0·9 (9)
London and South Eastern ...	67	0·7 (6)
North Western	45	0·7 (10)
Scotland	−57	−1·1 (11)

† Mid-year estimates.

Although the percentage changes in population during 1949-57 were smaller than the percentage changes in insured numbers, in general the region order is more similar than dissimilar. Moreover, as in Table 1, Eastern and Southern regions outstand in their high rate of growth. In a much less degree, the two Midland regions outstand from the remaining regions; and this was also the case in Table 1. Lastly, with the exception of Northern region, the regions containing the Development Areas (Wales, North Western, Scotland and Northern) occupy the bottom part of the table—in Table 1 they are the four lowest. This general consilience between the percentage changes in the number of insured persons, and in those of total populations, supports the suggestion made above that, as regions gain or lose insured numbers, they also gain or lose total population in roughly similar measure.

Regional Disparities

It may be concluded, therefore, that the somewhat contrasted changes in the distribution between regions of insured persons has been a significant cause of the contrasted changes in the distribution between regions of total population.

That, as Table 2 shows, over 51 per cent of the growth of population in Great Britain between 1949 and 1957 took place in the two neighbouring regions of Eastern and Southern, is arresting: it is even more so because these two regions accounted for under 12 per cent of Great Britain's population in 1949. It is significant, too, that the two Midland regions recorded over 27 per cent of the growth of Great Britain's population because they had only some 16 per cent of Great Britain's population in 1949. The counterpart of these disproportionate increases of population is, of course, that the remaining seven regions shared an increase in their inhabitants of under a quarter of the total increase in Great Britain.

Analysis shows that Eastern and Southern regions gained conspicuously in their populations during the period 1949-57; that the two Midland regions gained much less, but nevertheless considerably; South Western region followed, with a rise higher than the national average; but all the other regions—Northern, East and West Ridings, Wales, London and South Eastern, North Western and Scotland—increased population at a rate less than the national average. Scotland actually lost population—being the only region to do so.

The association between changes of insured population in the different regions and changes in their total population is also illustrated. While such changes in the insured population are not the only cause of changes in the total population of the regions, the high coefficient of correlation suggests that they constitute an important cause. Why, then, did the different regions experience different rates of growth of their insured numbers?

Underlying Reasons

Two important reasons may be identified. First, the various regions had industrial structures in 1949 in which industries that expanded or contracted subsequently were represented in different strength. Second, those industries which expanded or contracted during 1949-57 increased or decreased the insured numbers attached to them in different proportions in different regions.

May I turn now to consider the control over the distribution of industry that was begun under the Distribution of Industry Act, 1945, and still continues? There is not time now to examine the detailed results

of that control, but something may be said about its working.

The first—and primary—objective was to rehabilitate those parts of the country that suffered abnormally high rates of unemployment in the 1930s. The areas affected were scheduled as development areas—namely, North Scotland, Scottish, North Eastern, West Cumberland, North East Lancashire, South Lancashire, Merseyside, Wrexham, and South Wales. The method adopted was to try to induce industrial firms to locate their new enterprises there, and to assist existing firms in the areas to grow. It was expected that both would expand employment, and curtail unemployment.

New Industrial Building

Between mid-1945 and the end of 1957, new industrial building amounting to 100,426 thousand sq. ft. was completed in the development areas. This, consisting of 3,199 projects, was nearly 27½ per cent of the total for Great Britain. Since the development areas accounted for only about 18 per cent of Great Britain's insured numbers in manufacturing industry, evidently they have had more than their proportionate share of Great Britain's new industrial building. There are no statistical data to show how existing industrial firms have expanded by increasing their factory space: but it is known that a number have done so.

A second objective of the Distribution of Industry Act, 1945, was, in the words of the Act '. . . for controlling the provision of industrial premises with a view to securing the proper distribution of industry' in the country as a whole. How far has this second objective been achieved? There could be endless discussion as to what constitutes 'the proper distribution of industry.' There are, however, some points that can be made. If regard is paid to industrial building that took place between 1945-56 in parts of the country that are outside the development areas, and the share of each region in that industrial building is compared with each region's share of Great Britain's manufacturing labour force, the resultant percentage of industrial building approved varied from 71 in London and South Eastern region to 239 in Eastern region.

Modifying the Pattern

This seems to be a wide variation. But in seven of the eleven regions, which in 1945 contained over three-quarters of the total insured numbers in manufacturing industry in Great Britain, the variations are no greater than between 71 and 108. If the extreme variations are disregarded, it would therefore seem that the location of the new industrial building approved conformed fairly closely to the previous distribution of manufacturing industry. To the extent to which new industrial building influences the distribution of population up and down the country, this means that the previous distribution of population was not altered profoundly. Nevertheless, in some respects that has, in fact, been modified.

(i) Firms have been restrained from undertaking new factory construction in Metropolitan London. Thus, although this area had some 20 per cent of Great Britain's insured population in manufacturing industry, between 1945-56 it had only rather more than half this percentage of Great Britain's total of new factory space. That must have gone some distance towards relieving the crowding of industry and people there. The next lowest share of new industrial building approved relative to insured numbers in manufacturing industry was recorded by East and West Ridings and North Western regions. Compared with the 71 per cent share of London and South Eastern region these two regions had rather more than 80 per cent. East Riding apart, both are areas in which industry and people are thick on the ground. The low proportion of industrial building approved for these may therefore have helped to restrain greater concentrations of industry and people there. The two Midland regions came next in order at one remove—following South Western region. Again, therefore, that they were not granted a larger share of approvals to build new factories, or to extend old ones, may have helped to check the congregation of industry and people in them.

Move to Less Dense Areas

(ii) A somewhat considerable proportion of new industrial projects was approved during 1945-56 for parts of the country that were not noted for their dense aggregates of industry and population. Thus, the highest percentages of the volume of factory space relative to existing labour forces in manufacturing industry were then approved for those parts of Wales that were outside the Welsh Development Area (central and northern Wales), Southern and Eastern regions. South Western region occupied a middle place between London and South Eastern region, on the one hand, and Eastern region, on the other hand. As these four areas—central and northern Wales, Eastern, Southern and South Western regions—had less than 23 per cent of the estimated population of Great Britain in 1955 (less than the nearly 24 per cent possessed by the two regions of East and West Ridings and North Western, and the nearly 25 per cent of London and South Eastern region) it would appear that they were less crowded, and therefore more capable of receiving the larger proportions of new industrial building assigned to them. It is observable, moreover, that a moderately substantial part of the new factory space assigned to Eastern, Southern and South Western regions was located in such smaller towns as Bedford, Luton, Reading, Aylesbury, High Wycombe, Slough, Chelmsford, Dagenham, Letchworth, Ipswich, Norwich, Cambridge, Oxford, Welwyn, Newton Abbot, Gloucester and Cheltenham.

(iii) Up to the end of 1957, the equivalent of about one-sixth of the total factory space approved for Greater London had been designated for the eight new towns situated around London. While not a large proportion in itself, taken in association with the low fraction assigned to Metropolitan London, it shows that progress had been made with the objective of diverting industry that might have settled in the metropolitan area if the control over the distribution of industry had not existed. Although not the only cause, it played its part in increasing the population of these new towns in 1957 to about double their original number.

(iv) Throughout the period, the authorities tried to steer some new industrial projects into places outside the development areas that suffered unemployment greater than the national average figure. To do this was desirable; for such places always accounted for a not inconsiderable proportion of the aggregate of unemployment in the country—in 1957 over 200 had an unemployment percentage higher than that for Great Britain.

Results of Policy

These four modifications of the previously existing distribution of industry in regions outside the development areas are commendable because they aimed at reducing congestion of industry and people; at expanding smaller rather than large towns; at fostering the new towns; and at relieving unemployment in places where it was more serious.

These, then, are some of the results of distribution of industry policy upon the distribution of the industrial population and population generally. What suggestions can be made about the objectives of that policy in the nearer future?

First, it would seem desirable to fortify the attack upon the more serious cases of industrial congestion. Apart from its social drawbacks, this has economic disadvantages. It impedes good factory lay-out by the shortage of land for extensions of factories to cope with extra production; it increases costs of production by driving up the price of land; it increases labour costs because usually local labour is in short supply in congested districts; it increases costs of transport because roads and streets are overburdened with industrial traffic; and it increases the costs of dealing with increasing quantities of industrial and trade effluent. All these waste economic resources—wastes which could be reduced if congestion were curtailed.

Limits of Migration

Second, the work of rehabilitating the development areas should be continued. They are still abnormally committed to certain major industries which are vulnerable to economic fluctuation — their current relatively high unemployment figures reflect this. The extension of this work provided for by the new Distribution of Industry Act, 1958, aimed at relieving those districts that are suffering unemployment distinctly higher than the national average figure, should also be continued. For while the migration elsewhere of their surplus labour is manifestly needed, history (and the figures given earlier in this paper) show that migration does not clear the market. Those who can't, or won't, migrate, need the employment opportunities provided by industrial projects steered to the places where they live.

Third, new industrial projects should continue to be approved for the new towns—especially when otherwise they would have worsened the industrial congestion in the great cities and their environs. And is there not a case for creating more new towns? Experience shows that, rightly located, they can attract industry. And also, if rightly located, they can help to improve the existing distribution of industry by improving social amenity. New towns can be expensive

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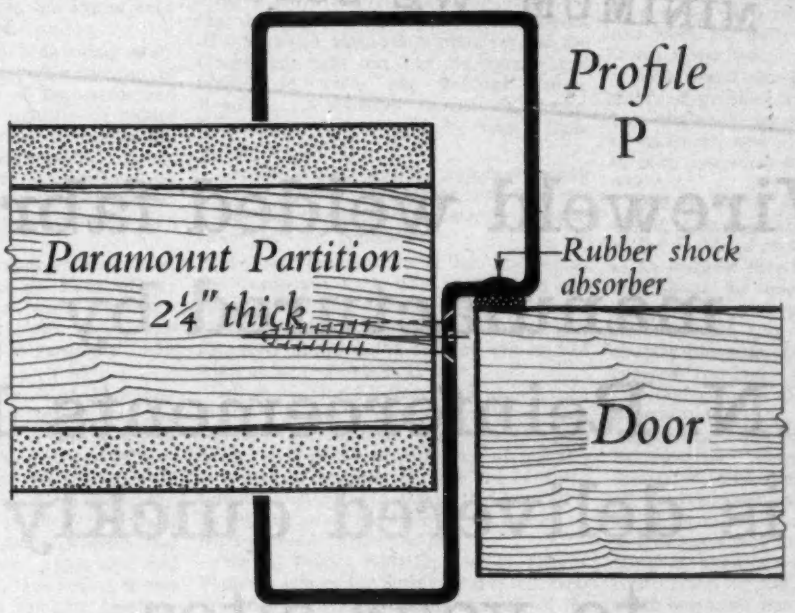

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in money; they need not be expensive in economic resources, because they can reduce the waste of economic resources caused by the excessive accumulation of industry in crowded areas.

Fourth, would not the control over the distribution of industry be more efficient and effective if the various government departments concerned with social planning integrated their diverse policies?

Discussion

Proposing a vote of thanks to Professor Sykes for his paper, MR. G. H. ANDREW, a Deputy Secretary at the Board of Trade, said Professor Sykes's analysis of the various trends arising from the work the Board of Trade had initiated had been a good deal more agreeable to him as an official than might have been expected.

It was true there had been many problems concerned with the distribution of industry. The problem of the extent and the right of control of industry to reduce the migration of population to balance unemployment evenly throughout the country had been a difficult matter. It often involved political considerations, and very often decisions made came in for more condemnation than welcome.

He, however, thought that on the whole, Professor Sykes's verdict on many of the allegations over the 14 years since the Distribution of Industry Act came into operation, was the Scottish verdict of 'Not Proven.'

He thought, too, that much of the migration had not been entirely due to long and continued unemployment. It was important to remember the astonishing growth of non-industrial employment and this was a feature which had added to the problem of the distribution of population. He felt the growth of the Eastern and Southern Regions had been due to the greater expansion and resilience of industry in those areas. It was also due to more room for new buildings and development. Another reason was the fact that the Eastern Region was dry and the Southern Region was sunny.

People who liked to choose where they lived did, on the whole, find some attraction in moving south and south east. The reduction in the expansion of London industry had been balanced by the growth of office buildings and other movements in the London area. This kind of development was very intractable so far and presented a big problem.

MR. PETER SELF, a lecturer at the London School of Economics, seconding the vote of thanks, felt that Professor Sykes had struck a fair balance between the natural trends and forces at work in that particular sphere. In dealing with the possibilities and limitations of public control, Professor Sykes had come down very fairly on the side of the statistical evidence he had put forward. He (Mr. Self) thought that public policy in this field had achieved something, but a good deal less than some people had hoped for originally, and a good deal more and better than some people, who reacted gradually to events, would have them believe.

That having been said, it was interesting to look at the various trends Professor Sykes had indicated.

First of all there was the question of what was happening in South Eastern England. He thought they would all accept that the natural trend was a concentration of population in the large urban regions, and the population was coming from the more remote places. On the other hand, there was the decentralisation within the region.

Professor Sykes had given evidence of this trend going on. Mr. Self thought that the growth in the Southern Region was particularly significant because a large part of it came under the influence of London. Also of interest was the general draw of the broader London Region, comprising London and the South Eastern and Southern Region, which could be defined roughly by a line drawn from the Solent to the Wash, and represented a considerable part of those areas which Professor Sykes had been talking about. Another trend was the growth of industry in extended regions beyond the Green Belt right out into the country and typified in towns like Bedford, Luton, Reading, Aylesbury, High Wycombe, Chelmsford, Letchworth, Norwich, Cambridge and Oxford.

The third trend was the apparent growth of long-distance commuting into Greater London itself, where employment had grown faster than the population.

Mr. Self thought that if the analysis of the trends was right, what was needed and essential was guidance and assistance in the industrial development that was going on in the outer parts of the London region and relate it to population growth.

All the evidence before them showed, he thought, the need for such a body as a regional development corporation which could assist in the development of industry in towns in the outer parts of the extended London region. He threw that out as a recommendation which could be passed on what Professor Sykes had said.

MR. W. BURNS, AMICE, AMTPI, Deputy Planning Officer for Surrey, said it was clear that even with the stringent controls of the Board of Trade, in the London area, an enormous number of employment opportunities were created with the new factories that had gone up and there had also been an enormous increase in commercial employment. This increase in employment opportunities was shown relative to the population in the figures presented by Professor Sykes, and it was clear that an enormous pressure was building up in the area, which was causing a great deal of concern. This trend prompted the question whether the regions were being planned on the right policies.

If the problem was to be solved they would have to face up to paying out money, and this could only be done on a national basis. If that was politically unacceptable, then they had got to face up to the fact that employment opportunities in the regions were going to increase. If congestion was bad when the Barlow report was prepared, it was worse today.

They would also have to alter the whole trend of planning to meet the new trend, but this would mean completely new ideas in transport, new ideas about density, and, in fact, new ideas about town design as a whole.

MR. H. W. J. HECK, MIMunE, MTPI, County Planning Officer for Cornwall, spoke of the problems of his county. He thought as an Institute they had a good reason why they should be associated closely with the problems of industry. Unless the problems were watched very closely their town and country planning schemes were unlikely to come to fruition.

Replying to a comment by MR. ERIC BELLINGHAM, OBE, LLB, LMTPI, who alleged that Luton had been allowed to get its population completely out of hand and seemed to have devised a way of breaking all the principles and continued to grow in an elephantine manner, PROFESSOR SYKES said he knew very little about the town. He, however, knew it was making an important contribution to the country's export trade which we could not afford to neglect.

OFFICE BLOCK, NOTTINGHAM.—Intended for Boots Pure Drug Company, work on this 6-storey block on a site at Station-street has begun. Ends of the two main buildings are faced in Portland stone, sides being of curtain walling with mosaic-faced concrete mullions. It will house, among other departments, that of the Architect, Mr. Colin St. C. Oakes, RS, MBE, FRIBA, who designed the building

SPECIAL SCAFFOLDS

Developments Evolved by London County Council

THE Chief Inspector of Factories has made reference in his 1957 annual report to some special scaffolds devised by the London County Council. These scaffolds were evolved from ideas put forward by staff of the Works Division of the Housing Management Department to reduce time and cost in carrying out jobs frequently recurring in the maintenance of the Council's 200,000 houses and flats. The three devices are as follows:

Window Scaffold.—The purpose of this is to provide a quickly erected platform from which work can be carried out to the outside of casements or the adjoining wall surfaces without the need to erect an independent scaffold from the ground or to suspend a cradle from above. It is especially useful on the upper storeys of blocks of flats. It can also be used at the top floor to provide a means of access to the roof.

The scaffold consists of two identical galvanised welded steel tubular frames which support the working platform outside the building and which in turn are supported inside the building by two adjustable props erected between floor and ceiling. Adequate toeboards, guardrails and safety fence are also provided.

With suitable decking and accessories the scaffold can be used on varying widths of casements.

'Saddle' Stack Scaffold.—This was developed to provide a safe, quickly erected platform from which minor repairs could be carried out to a chimney stack located at the ridge of a cottage. Access to the scaffold is via a ladder to eaves and a roof ladder up the slope of the roof. The scaffold can be erected in about five minutes and this is usually carried out by the tradesman who is about to work on the stack, and his labourer.

The scaffold consists of two prefabricated timber frames which are connected together over the ridge by a removable hinge-pin. The hinged centre allows the scaffold to be used on a wide variety of roof pitches.

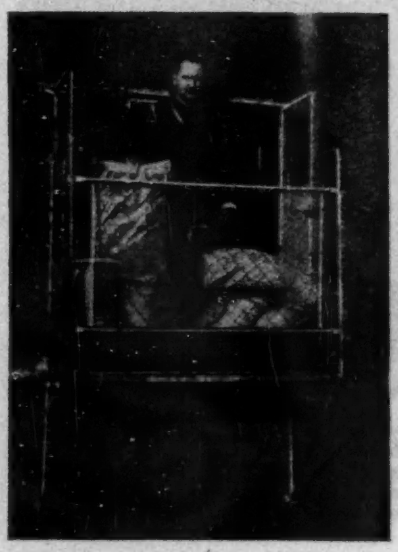
'Single' Stack Scaffold

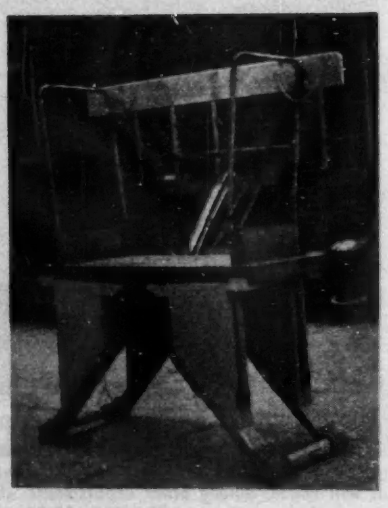
A two-foot wide platform is laid on the frames. Two hooped tubular steel guardrails pass through elongated holes in the decking into sockets on the saddle-frames. A selected timber handrail spans between the guardrails on the ridge of the platform away from the stack.

Access to the platform is from the roof ladder under the handrail, and toeboards are provided on the ends of the platform attached to the tubular guardrail.

'Single' Stack Scaffold. — This was developed for use where the 'saddle' scaffold could not be used—the chimney stack being at the eaves or on the slope of the roof. It consists of a timber frame, easily adjusted to varying roof pitches, which is placed, from a roof ladder, on the roof slope above the stack. On this frame is laid a decking providing a working platform 2 ft. square. Tubular steel guardrails socket into the decking at each end of the platform.

Both stack scaffolds provide a safe working platform at considerably less expense both in time and material than normal methods, which in most cases would entail the erection of independent scaffolding.





Left : Window Scaffold
Above : 'Saddle' Stack Scaffold

The LCC operates a suggestion scheme and while the development of the devices was a matter for maintenance officers and safety officers, awards were made to the staff from whom the ideas originated. The LCC's Director of Housing is Mr. R. J. Allerton, FRICS, AMImunE, PPIHsg. Mr. C. W. Henderson, MICE, is in charge of the Works Division of the Housing Management Department.

INTERIOR LIGHTING

Problems of Modern Trends in Building

THE National Inspection Council for Electrical Installation Contracting, Aldine House, 10/13 Bedford-street, London, WC2, has issued the following statement on building trends and interior lighting:—

Site values have increased materially and so has the cost of building, and consequently today the architect faces the problem of meeting rising costs by reducing the heights of ceilings and designing the building so that rooms are deeper. This trend is evident in all places where new industrial and commercial buildings are being erected.

It brings with it, however, a further problem, namely adequate lighting, and often necessitates the use of artificial lighting throughout the day. This is not serious from the cost viewpoint because daylight is not really free; to obtain adequate daylight illumination in long deep rooms implies the use of a very large amount of glass, which in its turn increases the heating cost in autumn and winter and creates a heat problem in summer.

Skilful planning of the lighting installation is called for in order to obtain an even effect throughout the room. The Americans have tackled the problem by practically excluding daylight and depending upon artificial lighting entirely, while the Danes are tending to plan for a complete change in the character of the lighting after twilight. This calls for a separate or additional lighting installation for use after daylight ceases.

These trends will grow in importance year by year and the advice of those who are in daily contact with electrical installation work may well be sought. The National Inspection Council for Electrical Installation Contracting, a voluntary non-profit making body set up with a view to ensuring that electrical installation work shall be efficient, safe, and in keeping with the wiring regulations of the Institution of Electrical Engineers, maintains a roll of approved electrical contractors which contains over 5,000 names and addresses. Copies of the roll may be inspected at the showrooms of the various electricity boards, offices of chambers of commerce, public libraries, etc.

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A LAING COMPANY

A CASE ON BY-LAWS RELATING TO WATER CLOSETS

By a Legal Correspondent

A CASE of considerable interest to builders was recently decided and is reported as *Townsends (Builders), Ltd. v. Cinema News and Property Management, Ltd. (David A. Wilkie and Partners Third Party)*. In this case a building contractor carried out work for a building owner at 92 Cheyne-walk, Chelsea which involved the construction or alteration of a bathroom and lavatory on each of the two floors.

The effect of this alteration in each case was to constitute an infringement of by-laws made by the London County Council under S.39(I) of the Public Health (London) Act, 1891, which laid down that the water closet should not be 'entered from any room used for human habitation,' with a proviso that a water closet used exclusively with a bedroom or dressing room may be entered directly. In this case it was clear that two separate bedrooms were envisaged although the contractor did not know until the work was far advanced that there was an infringement of the by-law.

The architect was included as a third party to the proceedings. Although the work when completed was an infringement of the by-laws and there had been a wrong indication on the plan that the rooms were to be used as a bedroom and dressing room for one person which had never been intended and in fact no notice of commencement of work had been given under para. 9 of the by-laws, the local authority did not in fact institute proceedings (although there was a threat of proceedings) or even insist on completion during the occupation of the rooms on the first floor by Mrs. Harris, the building owner's wife.

The case arose when the builder and the architect claimed for work done. The building owner claimed as a defence that the work should not be paid for by reason of the illegality and also counterclaimed for the prospective cost of reinstatement. On behalf of the architect it was also suggested that the LCC's by-law was invalid for unreasonableness, injustice and uncertainty. The last claim was immediately dismissed by the High Court who pointed out that 'a court will be all the slower to hold by-laws invalid in proceedings to which the local authority concerned are not parties.' In the county court the judge rejected the defence and counterclaim by the building owner and allowed the builder's claim but awarded damages to the building owner against the architect for negligence.

The building owner and the architect appealed. The Court of Appeal rejected the building owner's defence. In so doing they distinguished between building licence cases under the Defence Regulations where the whole operation was unlawful (*Strongman 1945, Ltd. v. Sincock*) and therefore no action could be successfully brought, and the infringement of the by-law which did not go to the root of the work involved and where the local authority had a discretion in relation to the offence. It was pointed out that the work could be made to comply by merely partitioning the water closet within the bathroom. Therefore as against the building owner the court allowed the cost of the work done by the builder, £150, with costs, but on the counterclaim the cost of partitioning was allowed, namely £162 10s., with costs.

Although the counterclaim was against the builders it was passed on to the third party, the architects, and set off against their claim for work done of £175. The architect of course had been responsible for the plan and specifications as submitted to the authority.

It is interesting that in the course of the judgment Lord Evershed, MR, did point out the difficulty of the builder because, although he may be told the room is to be used as a bedroom, the building owner may in fact decide to use it as a nursery, scullery, schoolroom or in any other way.

The learned Master of the Rolls also pointed out the difficulties of the wording of the by-law 'used exclusively with a bedroom or dressing room' when in fact at the time of building it is not being used at all. The court also took the view contrary to the county court judge that if the two rooms were used as a bedroom *and* dressing room they would still constitute an infringement of the by-law.

A last point of some importance is that a builder as such is not exempt from responsibility (although he can achieve the same result by bringing in the architect as a third party) by the fact that 'according to custom in building operations the architect was regarded as responsible for seeing that the work complied with by-laws.'

SAFETY BELTS AND HARNESSES

Accident Prevention Group Talk

A TALK entitled 'A New Conception of Safety Belts and Harnesses in Modern Industry,' was given to members of the London Building and Engineering Contractors Accident Prevention Group by Mr. T. G. Shand, of Barrow Hepburn & Gale Ltd., earlier this year at 1 Queen Anne's Gate, Westminster, SW1.

MR. SHAND began by stating that in spite of the high accident rate in industry due to falls the misuse or non-use of safety belts continued. He attributed this partly to deficiencies in legislation, partly to the psychology of the workman, but in the main to the inadequate and unsuitable belts available in the past.

The almost static design of safety harnesses over many years, Mr. Shand said, was because manufacturers were not encouraged to spend money and time to develop them, when workers were reluctant to wear belts because they were generally heavy, cumbersome and uncomfortable. The safety belt was the Cinderella of all the safety appliances used, in almost all industries, but particularly in building and engineering, where one would have thought it would have been of most service.

'The Factories Act, while providing many wise and detailed regulations regarding the provision of suitable stagings and scaffoldings, casually mentions the possible use of other safety devices such as belts or nets. Yet despite these elaborate scaffoldings there are still a large number of accidents each year because people still fall off them—and there is nothing to prevent them doing so in a moment of carelessness or of sudden illness,' he said. 'In fact, instead of being an alternative, the safety belt should be complementary to the other safety precautions on the building site—it should be possible to produce a simple lightweight belt, so comfortable that a man could wear it all day, with a simple attachment or anchoring strap whereby he could attach himself to wherever he was—to a travelling cradle—scaffolding or staging—to open girders or to guide ropes—anywhere on the site.'

'A Natural Accessory'

To the worker at heights the safety belt should become as natural and as everyday an accessory as is the apron, welder's screen, goggles or gloves to other workers in other industries. By legislation, training, psychological approach, but above all by the provision of the proper equipment, this should be the target.

So the initial qualities of the proposed new belts would be adequate strength—ensured by making them to pass the BSI six foot drop test—extreme simplicity with reasonable comfort and protection from the shock of a sudden arrest in the event of a fall. The development over recent years of man-made fibres such as Nylon and Terylene and the vast improvement in high tensile steels and alloys seemed to provide the tools for the job. Next they had to consider the different tasks the safety harness had to perform.

These could be divided conveniently into four, as in the BSI specification which was to be the technical basis on which the equipment would be produced. They were:—The pole climber's belt for telephone and electricity linesmen; the general purpose close anchorage belt for window-cleaners, etc.; the general purpose remote anchorage belt for spidermen, etc.; the lifting harness and belt for workers in enclosed spaces who might be suffocated or overcome by noxious fumes—slack hoppers, grain silos and sewers, etc.

Referring to the new Pakawa safety equipment, Mr. Shand said that the outline of the design was beginning to take shape—first there would be a safety waist belt—safe, simple and light, which could be worn all day. Then there would be a series of detachable 'clip on' anchoring accessories each designed for a specific purpose.

Having outlined the principles and qualities needed in the new belts, Mr. Shand described how they had tried to translate them into the new equipment he was displaying, pointing out the completely novel features of many of the items. For convenience, and following the line of argument, the equipment was divided into two classes—waistbelts and anchoring attachments. The waistbelts were made in three patterns to meet the variable needs of different users. He then gave details of the belts and expressed the hope that firms would try out this equipment and report on it to manufacturers.

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 55 of this issue. The form can be used for more than one inquiry.

CONTRACTORS' PLANT

A PIPE HANDLING TRACTOR has been designed to lift a load of 14,000 lbs. of tubulars in lengths of up to 40 ft. Since it will load and unload a pipe-carrying trailer of 50,000 lbs. capacity and tow it at speeds up to 27 m.p.h. considerable saving of conventional transport and handling equipment can be achieved.

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The pipe-handling forks are designed to tilt forward at 72° under hydraulic control, enabling pipe to be picked up from a point three feet below ground level—a useful feature for loading or unloading barges. When the pipe-handling mechanism is removed the machine can also be used as a heavy duty fork lift truck. (Illustration.)
Michigan (Great Britain) Ltd., Camberley, Surrey.

THE 'FULFLO' FEEDER CONVEYOR is a portable conveyor system for handling aggregate or concrete. It combines the functions of a 1¼ cu. yd. temporary storage hopper and conveyor and is designed for use with the range of 'Speedy-feeder' portable flexible belt conveyors. It is adaptable to different rates of loading such as one would get from concrete mixers, 'Readymix' vehicles and rear-tipping lorries and it will feed material at an even rate to the 12 in. wide belt conveyors for carriage to the point of discharge. More than 35 cu. yds. of material per hour can be supplied and, if desired, up to three mixers can be positioned round the conveyor to permit an almost continuous flow of concrete to the pouring area. (Illustration.)
The Wickham Engineering Co., Ltd., Dashwood House, Old Broad-street, EC2.

CURTAIN WALLING

PLANS for the use of polyester/glass as a material for curtain walling have been announced under the trade name 'Osma.' The curtain wall panels consist of inner and outer skins moulded with Cellobond polyester resins and glass fibre and are filled with a plastic foam insulant. Polyester/Glass is said to have excellent weathering properties and is resistant to fungal and bacteriological attack. The wall sections are light so installation on site is made easier and transport costs are cut. The plastics foam provides a good insulant.
G. H. Osborn Building Products Ltd., Dollis Park, London, N3.

DATA PROCESSING

UNTIL recently the computer has usually been associated with Banking, Insurance, Atomic Research and other large establishments where its continual employment makes it an economic proposition. The Pegasus Computer, currently demonstrated at the London Computer Centre of Ferranti Ltd., is being used for certain building operations. What is known as a 'Cut and Fill' programme has been drawn up so that the amount of earth that has to be dug and filled in levelling a site prior to construction can be calculated. Where site level is arbitrary, a grade level can be found which will obviate the need for any movement of earth to or from the site. A further programme has been devised to give an elastic analysis of two dimensional rigid frames taking into account direct compressions as well as moments. It can be applied as easily to a bridge truss, where moments are of secondary importance, as to a portal-type building frame.

Apart from the straight purchase of the computer there is a computing service which can be used in two ways. Complete problems may be submitted which are programmed, run on the computer and the results returned. This may be preferred where, as in the two examples above, programmes are already in existence. When, however, the problem is entirely new, this procedure is not encouraged as, although at the Centre there are a number of specialists for different trades who will talk over the problem, they will not act as consultants. They would, for instance, be prepared to calculate the stress of a bridge truss, but not to tell the engineer how to build the bridge.

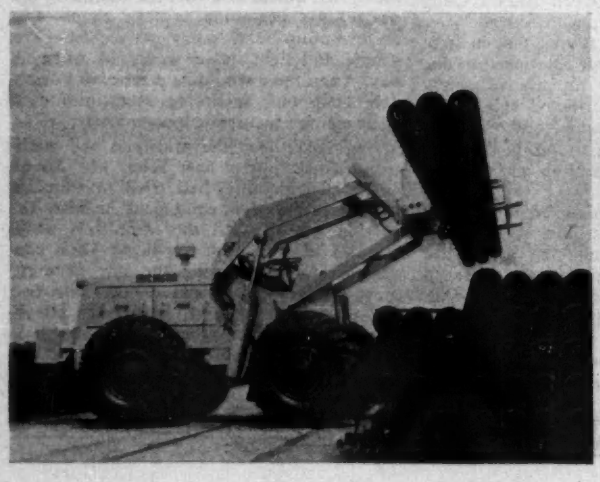
The second and more effective method, sometimes referred to as the 'do-it-yourself' method, is for the straight hiring of the computer's time. The customer prepares his own work, runs it on the computer and accepts responsibility for the work. Two-week courses are run at the Centre so that users can acquire a basic knowledge of the computer and a simplified method, known as 'Autocode,' can be used in the preparation of the work. The machine will adapt this data into a form in which it can be used.
Ferranti Ltd., 21 Portland-place, W1.

HEATING

A FULLY automatic OIL-FIRED BOILER, known as the 'Centramatic 80,' which incorporates a new type of burner, has been developed. The burner is a fan pressurised unit incorporating electric ignition and a co-axial type fan. The main boiler thermostat controls the automatic electric ignition so that the burner is either at 'high fire' or 'off.' This method avoids uneconomic rates of burning when a reduced output is required on the central heating system because the boiler always burns at maximum efficiency. The draught to the burner is also automatically regulated. The capacity claimed is 350 sq. ft. of radiation surface plus constant domestic hot water for a large house. Fuel consumption, when full on, is 5 pints an hour.
Newton, Chambers and Co., Ltd., Thorncliffe, Nr. Sheffield.

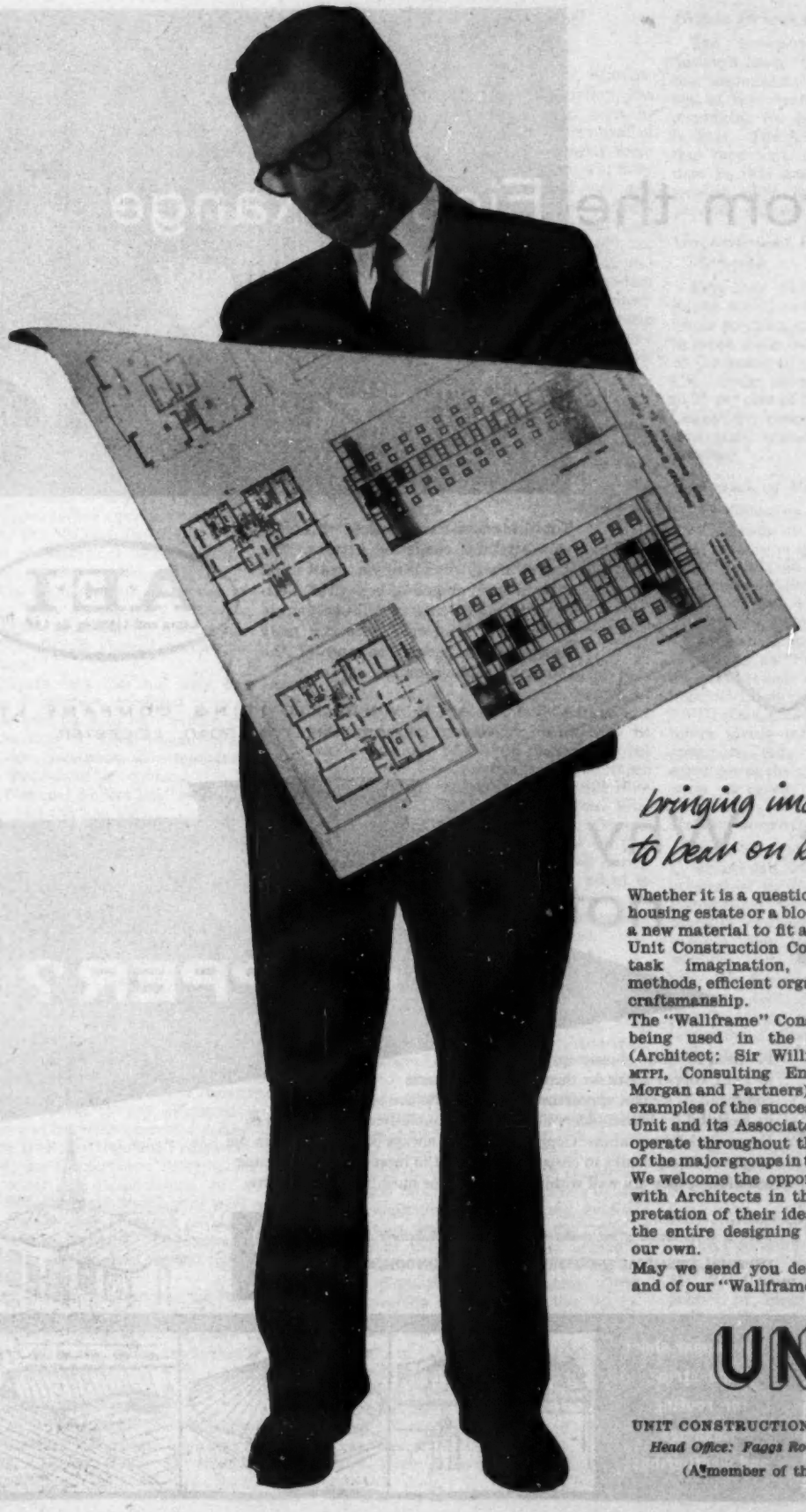
PLASTIC FINISHES

THE PLASINTER PROCESS has been developed to give greater adhesive qualities of plastics to metals. Both ferrous and non-ferrous metals can be coated and will be effectively protected from corrosion. Recent tests indicate that one coating material, the 'Plasinter' H.G. can be machined with no chipping or peeling and is resistant to oil, grease and petrol.
Darlaston Galvanised Holloware Ltd., Holyhead-road, Wednesbury, Staffs.



left: *The 'Michigan' 175A Pipe Handler stacking lengths of pipe during a demonstration at Shell Haven Refinery, Essex*

below: *The 'Fulflo' Feeder Conveyor gives a completely integrated portable conveyor system for handling aggregate or concrete*



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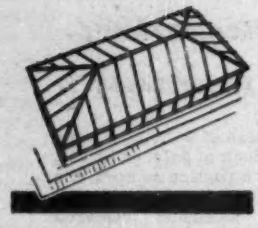

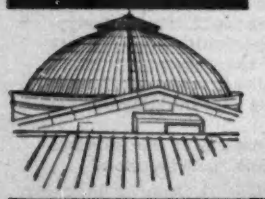

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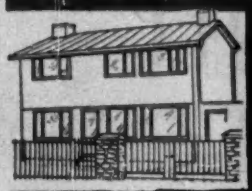

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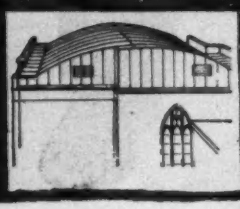

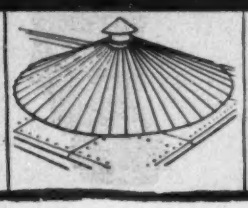

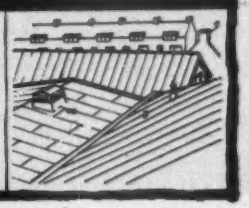

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DIRECT LABOUR

Growing Concern by Building Trades Employers

MR. W. D. BRYANT, public relations officer of the NFBTE, attended the June meeting of the President's committee of the Birmingham Association of Building Trades Employers. Members of the Association are concerned over the increasing activities of the Birmingham City Council's Direct Labour Department and wished to have the advice of the National Federation on methods of dealing with the situation.

Addressing the committee, MR. BRYANT pointed out that the problem of direct labour was a national one affecting builders all over the country. He reminded them that in 1946 the National Federation's committee had succeeded in persuading the then Minister of Health to issue a memorandum to local authorities which included the paragraph 'A direct labour department must tender in competition with contractors, at the same time and under identical conditions and only obtain the contract if the tender is as low as that of any good contractor.'

The memorandum operated well for many years and the National Federation had never hesitated to refer to it when making representations on the subject. In 1952-53 the Federation became aware that local authorities were only occasionally tendering for jobs. Further representations were made but ministerial officials showed a reluctance to take action.

Mr. Bryant said that not only had the National Federation produced a pamphlet on the subject but had also written one for the Federation of Civil Engineering Contractors for circulation to ratepayers' associations throughout the country.

'The National Federation,' he said, 'take the view that the first step is a political one and it is hoped to arrange for the National president and director to meet either the chief whip or the vice-chairman of the Conservative Party with the object of seeking an assurance that if they are returned to power they will give immediate attention to the problem of direct labour as a political issue. A suggestion that the president and director be permitted to meet the Minister of Housing and Local Government to discuss the matter will also be put forward.'

During the discussion which followed Mr. Bryant's talk, one member pointed out the disadvantages to private contractors when it was realised that a direct labour department was in a position to pay enhanced wage rates. Several members expressed disappointment that both the National Federation and apparently the Conservative Party had failed to appreciate the implications of direct labour. Whereas local associations were now to be asked to deal with the problem and to furnish the National Federation with information, the position ought rightly to have been the reverse.

In reply, Mr. Bryant said that the National Federation had compiled a dossier on the subject which he believed to be more comprehensive than any other in existence in the United Kingdom.

Master Builders Year Book

The London Region of the Federation of Master Builders has issued its Year Book for 1959. Copies from 33 John-street, Holborn, WC1.

NEWS IN BRIEF

Blackbushe Airport to Close

MR. HAROLD WATKINSON, Minister of Transport and Civil Aviation, has decided that Blackbushe Airport must be given up. To allow time for the removal of the State assets and tenants' property from the land by the end of 1960, flying will have to cease about the middle of next year, and an announcement will be made later when a date has been fixed. It is unlikely that there will ever be sufficient traffic to justify the capital expenditure (of the order of £2 m.) required to bring the airport up to modern standards for larger aircraft. It is contemplated that the Ministry will in due course meet the airlines affected by the Ministry's decision should such a meeting be desired.

New Ministry Secretary

The Rt. Hon. Harold Watkinson, MP, Minister of Transport and Civil Aviation, has appointed Mr. J. Garlick to be one of his Joint Principal Private Secretaries in place of Mr. J. M. Moore, who is being promoted.

The Late Mr. S. N. Barker

The death has taken place, on August 9, at his home 'Deanslake', Hythe, nr. Southampton, of Mr. Stuart Netherwood Barker. Mr. Barker was chairman of Bardic Ltd., William-street, Northam, Southampton.

International Film Congress

HRH the Duke of Edinburgh has graciously consented to become Patron of the 13th Congress of the International Scientific Film Association which will be held in London and Oxford from September 23-October 3. The Congress is being arranged on behalf of the International Scientific Film Association (ISFA) by the Scientific Film Association of Great Britain (SFA). Organisations in this country with films or film material they wish to be considered during the selection of British entries are asked to make contact as soon as possible with the SFA, 3 Belgrave-square, SW1, from whom further particulars may be obtained.

Protection of Industrial Designs

The President of the Board of Trade has appointed a committee under the Chairmanship of Mr. Kenneth Johnston, QC, 'to consider and report whether any, and if so what, changes are desirable in the law relating to the protection of industrial designs. In framing their recommendations the Committee should include consideration of the desirability of enabling UK designs to receive cheap and effective protection in other countries on the basis of reciprocity. Any person or organisation desirous of submitting suggestions or of giving evidence upon matters which fall within the terms of reference of the Committee are invited to communicate with the Joint Secretaries, The Designs Committee, The Patent Office, 25 Southampton Buildings, London, WC2.

'Overseas Building Notes'

Details of economic housing, with particular reference to the Southern Rhodesia African Home Ownership Schemes, are contained in this Note, No. 60, in the 'Overseas Building Notes' series, issued by the Building Research Station, DSIR, Garston, Watford, Herts, from whom copies may be obtained.

House Prices at New Peak

The Co-operative Permanent Building Society's latest 'Occasional Bulletin' reports that second-hand house prices had by the end of June broken through to a new peak, overtaking the peak post-war level reached in 1951. The Society's overall index shows that they were in fact 1½ per cent higher than in 1951 and 3¼ times as high as they were in 1939. In the second quarter of this year the increase was nearly 2 per cent.

Government House Purchase Scheme

Fifty-four building societies have now joined the Government's scheme for easier house purchase, or have undertaken to do so. Between them they represent over one third of the assets of all building societies in the UK. Under the scheme societies advance up to 95 per cent of the value of pre-1940 houses bought for owner occupation, subject to a maximum valuation of £2,500 (£3,000 in London).

Censuses of Production

The following section of the Report on the Censuses of Production for 1955, 1956 and 1957 is now obtainable from HMSO, price 3s., at York House, Kingsway, London, WC2, and branches, or through any bookseller: Volume 4—Containing tables relating to Standard Industrial Classification Orders XIV (Manufacturers of Wood and Cork); XV (Paper and Printing); XVI (Other Manufacturing Industries); II (Mining and Quarrying); XVII (Building and Contracting), and XVIII (Gas, Electricity and Water): summary tables giving totals for all manufacturing industries, etc.; and an appendix giving estimates of the sampling errors for the main items of census information.

Radio Communication in Building

The Birmingham building firm of Messrs. C. Bryant and Son, Ltd., is using radio communication to avoid delays in work on the Birmingham Inner Ring road and other Midland development schemes. The company is using a radio transmitter sited on Meriden Hill, Warwickshire. It is linked with the Birmingham headquarters of the firm by a GPO direct line. The company's plant manager said that the system was saving the company at least 100 miles a day in the distance covered by maintenance vans. Mr Christopher Bryant, joint managing director of the company, said 'This new communication is increasing our efficiency and it is also reducing a feeling of frustration among the men on the sites because they now receive help in a matter of minutes after they ask for it.'

FBI Industrial Art Award

The Federation of British Industries' 1959 Industrial Art Prize has been awarded to Mr. B. Holdaway, who is studying in the School of Interior Design at the Royal College of Art. The prize, which is subscribed by the members of the Federation's Industrial Art Committee, is given each year to a final year student of the Royal College of Art to spend some weeks abroad before entering industry. This year it was decided to select the prize winner from among the students in the School of Interior Design. Mr. Holdaway intends to study in Brazil, America and possibly Mexico.

TRADE NEWS

'Mural Centre' Opened

J. H. PORTER CO. LTD. have recently opened a 'Mural Centre' at 4/5 Weighhouse-street, W1, where they are showing a wide range of PVC wall-covering materials.

Change of Name

The UAM Group announces that the name of its exports subsidiary, Universal Asbestos (Overseas) Ltd., has been changed to UAM Overseas Ltd., taking effect immediately. This has been done in order to reflect more accurately the increasing importance of the Group's exports of pitch fibre pipes and reinforced plastics sheeting.

New Premises

Percy Bilton Ltd., civil engineers and building contractors, are to move to their new headquarters, Bilton House, 54-58 Uxbridge-road, London, W5 (Ealing 7777), on August 24, after 30 years in Park-street, London, W1.

Atlas Lighting Ltd. announce that as from July 20, 1959, their Head Office has been moved to Thorn House, Upper St. Martin's-lane, WC2.

In addition to their Head Office staff, their Fittings Design Department, Illumination Engineering Department for the London sales area and Advertising Department will be located in the new building.

On July 4 the Birmingham Office of The Ruberoid Co., Ltd., London, moved from Corporation-street to: Central House, 75 New-street, Birmingham, 2.

25th Anniversary Book

In celebrating its 25th anniversary Robert Watson & Co. (Constructional Engineers) Ltd., Bolton, have issued a book to commemorate the occasion. The book, entitled '1933 to 1958,' tells, mostly in illustrations, the history of the firm since its formation. It is grouped under four headings, namely, 'Building and Structures,' 'Blast-Furnace Steelwork,' 'Pressure Vessels and Plate-work,' and 'Repetition Work.'

PERSONAL COLUMN

MR. J. W. HAMMOND has been appointed sales manager of the agricultural and industrial engine division of the Villiers Group of Companies. Former Villiers southern area manager, MR. J. V. RIDLEY has been made personal assistant to MR. H. GEOFFREY JONES, Villiers' joint managing director, on all aspects involving Villiers and JAP agricultural and industrial engines sales.

MR. JOHN JOWETT, north east regional officer of the Timber Development Association Ltd., has accepted an appointment as timber consultant, with the firm of F. & H. Sutcliffe Ltd., Wood Top, Hebden Bridge, Yorks.

In view of rapidly expanding activities Semtex Ltd. has decided to broaden the management of the company, and has appointed MR. N. DANIEL to be assistant general manager.

The following appointments have been made by the Taylor Woodrow Group: MR. L. V. MOORE has been appointed to the executive board; he is chairman and managing director of the company's joinery works. MR. A. J. HILL, to give more time to the main and executive boards of the Group, has relinquished his position as managing director of Taylor Woodrow Construction Ltd., but continues as chairman. MR. T. FREAKLEY and MR. T. REEVES become joint managing directors of the Construction company. MR. R. E. ALDRED is appointed managing director of Taylor Woodrow (Overseas) Ltd., and MR. J. BALLINGER, a director of Taylor Woodrow Construction Ltd., has been appointed to the executive board of Taylor Woodrow for a period of 12 months.

SIR GILMOUR JENKINS, lately Permanent Secretary of the Ministry of Transport and Civil Aviation, has joined the Board of GKN Reinforcements Ltd., a member firm of the Guest Keen & Nettlefolds group of companies.

MR. P. T. BUTLER (South London and SE England area) and MR. N. E. GRIFFITHS (North of England and Scotland) have been appointed sales representatives with Anti-Dust Services Ltd., of Dudley, Worcs.

MR. G. T. GOODMAN, a director of The Unit Construction Co., has been appointed managing director of Pierhead Ltd.; as from July 1 this company incorporates the Pierhead Engineering Division of Unit.

MR. G. E. SEARSON, Northern general manager of The Ruberoid Co. Ltd., has retired after 40 years' service with the company. He is succeeded by MR. T. J. BIRTLES. To assist Mr. Birtles in the supervision of the contract division's activities in the north. M. O. T. Booth has been appointed Newcastle branch manager. Mr. Booth is, in turn, succeeded as manager of the Ruberoid branch office at Nottingham by MR. A. T. MCMANUS, who has been with the company since 1948.

T. & W. Farmiloe Ltd., makers of Nine Elms Paints, announce the retirement of MR. H. PRESTON, who was one of the company's London representatives for more than 30 years. The company have also announced the appointment of two new representatives, MR. S. GOMM, who will be operating in the North West Kent area, and MR. F. C. HOLMES, whose area will be the North-Western Home Counties.

Western Counties Brick Company Ltd., announces that MR. S. B. STEDHAM, has relinquished his appointment as managing director. He will continue to be chairman of the company The directors have appointed MR. P. E. W. STEDMAN, MA, to succeed to the post.

MR. A. WILYMAN, who has been chairman of Copperad Ltd., heating and ventilation equipment manufacturers, for the past 19 years, has retired from the chairmanship. He will, however, remain a member of the Board. He is succeeded by the managing director, MR. E. B. T. TANNER, who will combine the posts of chairman and managing director of the company.

Expandite Ltd., Chase-rd., NW10, manufacturers of sealing compounds, jointing and waterproofing materials and anti-corrosive treatments, announce the following changes within the group organisation:—(*Sealanco (St. Helens) Ltd.*—directors) MR. T. POOLEY—chairman (joint managing director Expandite Ltd.), MR. G. BUSSEY—managing director, MR. A. CATHCART, FCIS (director and secretary Expandite Ltd.), MR. R. L. MYATT, MR. C. R. PEARSE. Following the transfer of control of Sealanco (St. Helens) Ltd., to Expandite Limited, MR. E. BUSSEY and MRS. E. M. BUSSEY have resigned on retirement:—(*Sealanco (St. Helens) Ltd.—Sales Organisation.*) With immediate effect the sales of putties, bedding and glazing compounds and special mastics and sealers will be handled by the Expandite Sales Organisation. The sales of adhesives and Propac coatings will continue to be handled by Sealanco (St. Helens) Ltd., St. Helens, directly.

The following appointments are announced by the Greenham Group of companies:—MR. H. J. WADESON, Midlands director of Greenham (Plant Hire) Ltd., becomes deputy managing director at the Greenford, Middlesex, headquarters responsible for the commercial development of the company; MR. P. BARRETT, MR. C. KENT and MR. PHIMISTER have been appointed to the board of Greenham Sand and Ballast Co. Ltd., Feltham, Middlesex; and MR. G. BORWELL becomes managing director of Greenham Tool Co. Ltd., Isleworth, Middlesex.

MR. R. A. DULLER has been appointed a lighting division representative in the South-East Region of Philips Electrical Ltd. He will cover the south-east postal districts of London.

MR. G. V. PALMER, CBE, TD, who was elected chairman of Council at the Institute of Export in June, 1958, has been re-elected to the chair.

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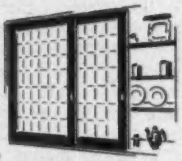

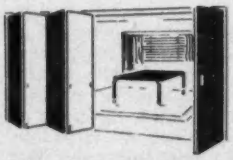

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COMPANY NEWS

Acrow Engineers Ltd. have declared a third quarterly dividend on the ordinary and 'A' ordinary shares of the company of 10 per cent (less tax), payable on September 5, 1959.

Expandite Ltd. recommend the payment of a final dividend of 10 per cent (less tax) on the shares of the company for the year ended March 28, 1959.

George Cohen 600 Group Ltd. recommend the payment of a final dividend of 7½ per cent (less tax) on the £3,125,00 ordinary stock of the company for the year ended March 31, 1959.

F. Hills & Sons Ltd. recommend the payment of a final dividend of 9½ per cent (less tax) on the ordinary shares of the company for the year ended March 31, 1959.

Austins of East Ham Ltd. have recommended payment of a final dividend of 8½ per cent (less tax), and in addition a tax free distribution out of capital profits, of 1 per cent on the issued ordinary share capital of the company, in respect of the year ended March 31, 1959.

Keith Blackman Ltd. have recommended payment of 17½ per cent (less tax) on the ordinary shares of company for the year ended March 31, 1959.

The Bowater Paper Corporation Ltd. has acquired the whole of the share capital of Flexpipe Ltd., which will produce pitch fibre pipes in a factory to be erected at Ellesmere Port, where the Mersey division of the Bowater Organisation is situated. Sales and distribution will be effected by the Building Boards Division of Bowaters Sales Company Ltd., and it is expected that marketing will commence towards the end of 1959.

N rthern Counties Exhibition

The Northern Counties Federation of Building Trades Employers are sponsoring a Building and Public Works Exhibition to be held from June 15 to 25 next year on the Durham County Show Ground, Lambton Castle, Chester-le-Street. Some 700,000 sq. ft. of covered and uncovered space will be available. Inquiries to the Official Organiser, J. Sandler, 20 John-street, Sunderland.

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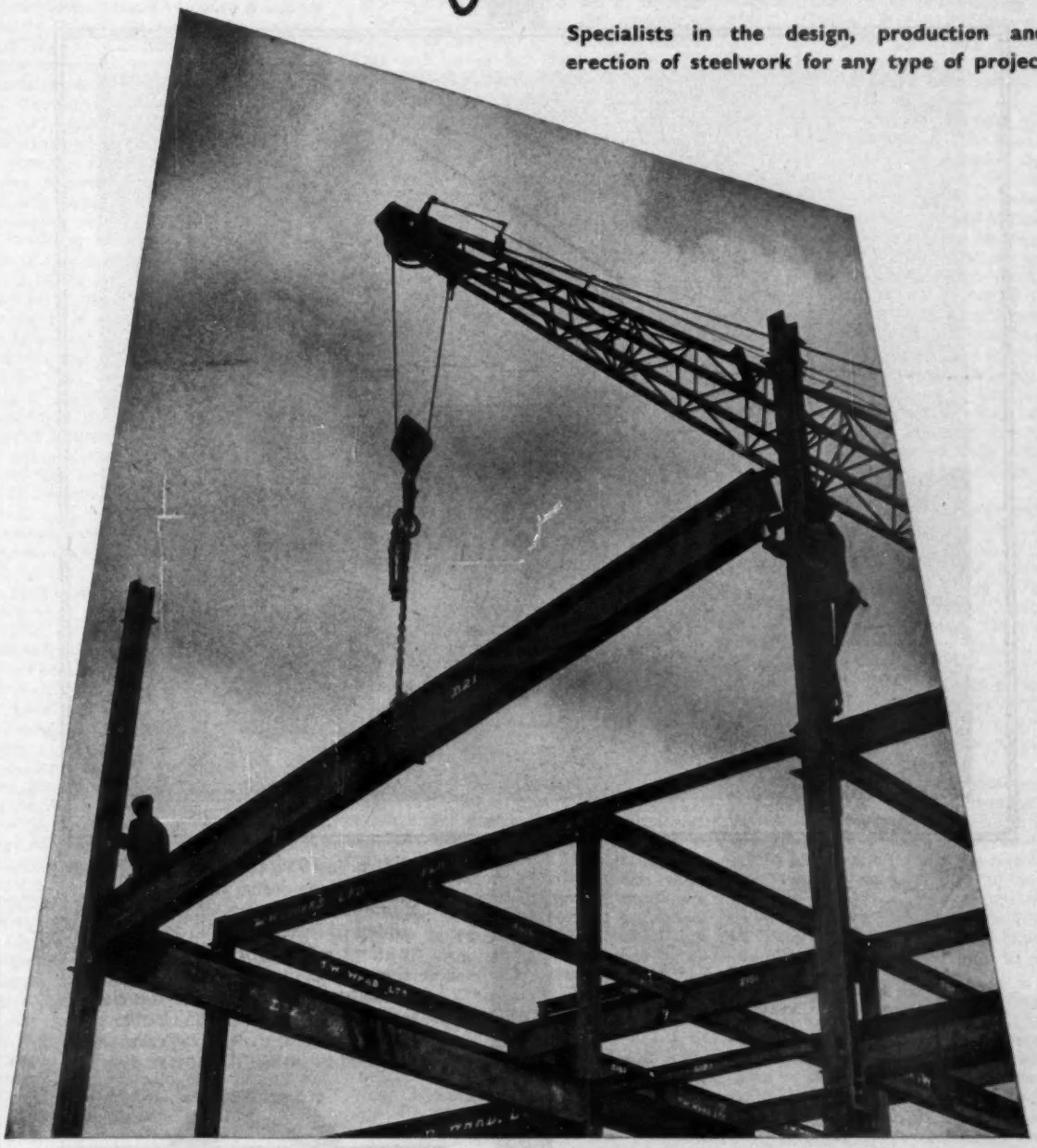

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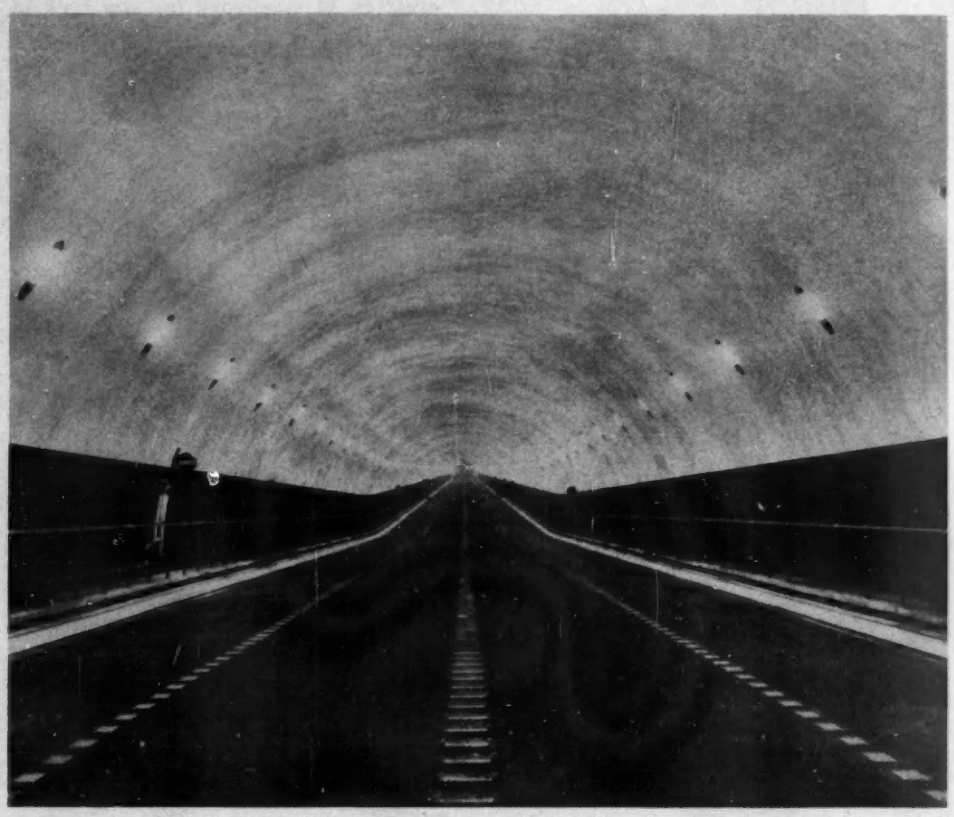
CS 21

A TRICOSAL TIME TESTED JOB

The Mersey Tunnel



When, in 1934, they mixed the cement and sand rendering for lining the famous Mersey Tunnel, Tricosal was added to increase its hardness and waterproofing properties. The ¾" thick rendering covered an area of 80,000 sq. yds. The work was done by the Gunite specialists Concrete Proofing Co. Ltd., and 25 years later is as good as on the day it was done.

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OVERSEAS BUILDING

From Our Own Correspondents

ARGENTINA.—The State gas organisation is to invite tenders for the construction of a new pipeline from Comodoro Rivadavia to Buenos Aires, a distance of 1,200 miles.

AUSTRALIA.—Details have been announced of a new petro-chemical industry to be established in Victoria at a cost of £23m. The managing director of the Vacuum Oil Co. Pty. Ltd., Mr. E. A. Jones, has said that several well-known companies will build four separate factories near the Standard Vacuum Refinery at Altona, Melbourne, which will supply them with raw materials. Construction will begin this year. . . . The RAC building on the Little Collins-street corner of Queen-street, Melbourne, and the building of the Pearl Assurance Ltd. on the south-west corner of Bourke and Queen streets are to be rebuilt. Each will cost more than £1m. and is expected to be started before the end of this year. . . . Stanhill Holdings Ltd., of Melbourne, is planning to build a £3½m. hotel in Sydney to accommodate 1,000 guests. The building will be in Macleay-street, Potts Point, where land and partially complete buildings have been bought for £400,000. The hotel will be fully air-conditioned and provide a bathroom to each bedroom. . . Victoria State Government will erect two new buildings in Melbourne over the next five years at a cost of £5m. One is a £3m. office block of 21 storeys, and the other a £2m. block of 13 storeys.

AUSTRIA.—Two new autobahns are to be constructed, one from Vienna to Wiener Neustadt on the way to Graz and the Italian frontier called the Autobahn Sud and the other from Innsbruck to Schonberg as part of the projected road from Kufstein to the Brenner. . . . The Wiener Bruckenbau und Eisenkonstruktions AG Vienna, after completing the reconstruction of Vienna's war-damaged State theatres and equipping a theatre in Czechoslovakia with the most modern stage installation, has now obtained a contract for the new grand opera in Warsaw.

BRITISH WEST INDIES.—It has been announced that the Government has reached agreement with the Esso Standard Oil Company for the construction of a refinery with a capacity of 26,000 barrels a day at an estimated cost of about $20m. The site has not yet been decided upon but it is anticipated that when plans have been finalised the project will take about two years to complete. . . . The Water Commission has started its search for additional sources to augment existing supplies in the Corporate area. The UK firm of consulting engineers, Messrs. Howard Humphreys & Sons, has been engaged by the commission to make a large-scale survey of untapped water sources in Kingston and St. Andrew. The same firm has prepared proposals submitted by the Grand Bahama Freeport Public Board of Works for the implementation of a £2½m. sewerage scheme for New Providence. The scheme is planned to cover a seven year period, with an expenditure of £250,000 in the first year and £400,000 in each subsequent year. . . . A Colonial Development and Welfare grant of £35,000 has been provided for the preparation of detailed designs for the new runway at Stanley Field airport, British Honduras. It covers the preparation of a project report, including master plan showing the ultimate development of the airport and the first stage of construction together with an estimate of the cost involved.

BURMA.—New airports are to be built at Sinkaling Hkamti near the frontier of India, and Putao near the frontier of China. Work will be in the hands of the Civil Aviation Department and the airfields are to be completed by 1961. A new airport is to be built at Pagan in co-operation with the army. . . . The State Agricultural Marketing Board is planning to build 24 rice mills equipped with electric conveyors and other modern devices. The four largest mills will be set up at Rangoon, Akyab, Paungde and Bassein.

BRITISH EASTERN CARIBBEAN.—The total cost for the new Georgetown-Rosignor road is likely to be in the region of $32m. The engineers, Messrs. Scott and Wilson Kirkpatrick & Partners Ltd., are now experimenting to see whether this figure can be materially reduced without prejudice to the effectiveness of the scheme. . . . During discussions held recently in London it was agreed that the Government of St. Kitts-Nevis-Anguilla might approach the Colonial Development and Welfare Department for a grant to meet part of the cost of the proposed new hospital in Basseterre which is not included in the 1955-60 Plan. . . . The Gros Islet Leased Area which was handed back by the U.S.A. to the S. Lucia Government is the suggested location of a new $1m. hotel which it is proposed to build to encourage tourism in the Island. . . . Tenders have already been invited for the implementation of a programme for the construction of Waterworks in Trinidad involving an expenditure of $9m. It is understood that work on the project is expected to commence late this year and to take 2½ years to complete. A $43.6m. sewerage scheme is also to be undertaken in this Colony.

BRAZIL.—The Mayor of Sao Paulo has revealed that tenders from two firms are being considered for the Sao Paulo Underground Railway. One of these is Importadora e Exportadora Bramarida Ltda. which represents a group of Japanese firms; and the other is the French firm of Societe Generale de Traction et d'Exploitation para do Brazil. Another call for tender is to be issued soon for the construction of another stretch of metropolitan railway.

CANADA.—The UK Trade Commissioner at Winnipeg has informed the Board of Trade in London that a multi-million dollar medical centre, one of the largest in the North American continent, has been proposed for Winnipeg. The new project may include not only new hospitals but also recuperation centres, rehabilitation clinics, diagnostic clinics, medical research buildings, motels, hotels, drug stores, restaurants and shopping centres. Plans call for an area of nearly one mile square with the Winnipeg General Hospital as the hub. The Winnipeg Zoning Board has given quite a favourable reaction to the project and the Mayor of the city has given his fullest support.

CANADA.—The Nova Scotia Government has assigned 6,000 acres in the Straight of Canso area for industrial development. A pulp mill will be constructed on 325 acres, and other new industries on 2,500 acres. . . . An 80,000-square-foot insulating product plant is to be constructed at Edmonton, Alberta, by Fiberglass Canada Ltd. Cost of construction is estimated between $2m. and $3m. . . . The new Winnipeg City Hall, construction of which will start shortly, is to be located on a 3.9-acre site on Broadway Avenue. Cost of the new building will be $6m. . . . Calgary Power Ltd. plans to make a start shortly on preliminary construction for the $45m. Brazeau River power project. . . . Construction of the new medical science building, at the University of British Columbia, will start in October. Cost of construction $2,800,000. . . . The Ford Motor Company of Canada is to extend its Oakville, Ontario, assembly plant by 25,000 feet. . . . The Place Ville Marie project in Downtown, Montreal, will cost an estimated $200m. when completed. Plans include a 40-floor office building and a 15-floor structure both of which will be constructed over the lines of the Canadian National Railway's Central Station. . . . Construction of a 50-mile ship canal from Georgian Bay to Lake Nipissing, Ontario, is under discussion by the Northern Ontario Development Committee. Estimated cost would be $14½m. . . . The proposed new civic centre for Victoria, B.C., will cost approximately $4½m. The project provides for a new city hall and a civic auditorium to seat 3,000. Site of the buildings will be Cathedral Hill.

CHILE.—The 1959 port improvement programme is to include the construction of new warehouses at Punta Arenas, defence works at Valparaiso, a new harbour at Niebla (Valdivia), the extension of facilities at Talcahuano and erection of breakwaters at San Vicente (Concepcion). The modernisation of the port of Arica, which it is estimated will cost 6,750m. pesos, is to be put to public tender; among the 20 firms which have registered with the Ministry of Public Works to be considered for the work are US, Western German, Japanese, Danish and Spanish contractors.

GHANA.—Under the second development plan a sum of £450,000 is to be spent on the construction of a casino in Accra to include an open-air swimming pool, a theatre and cinema hall, a restaurant, a bar and tea gardens. . . . A paint factory is to be established at Tema at a cost of £200,000. It is to be a joint venture between the Industrial Development Corporation and a Dutch firm and will, it is estimated, produce 50 per cent of Ghana's paint needs.

KENYA.—A Rhodesian building firm, John Howard and Co. (Africa) Ltd., of Lusaka, has been awarded a contract worth more than £3½m. to build a British army camp in Kenya. Work is expected to start next month, and the first section is to be completed in two years. The camp will have its own shopping and community centre, a cinema, swimming pool and recreational facilities.

NIGERIA.—A proposal for a 20-storey office building in Lagos has been approved by the Lagos Executive Development Board. It is claimed that it will be the first multi-storey steel framed structure in Nigeria and the highest building in West Africa. There will be 150,000 sq. ft. of centrally air-conditioned office space which it is hoped will cater largely for diplomatic missions. The promotors are the National Investment and Properties Co. Ltd.

The SCOTTISH BUILDER

Glasgow Overspill for Johnstone

JOHNSTONE in Renfrewshire is one of several Scottish centres which have undertaken to accept overspill population and industry from Glasgow, under a scheme which has been worked out by the Scottish Office. The town has gone ahead fast in this work and has finished the first of the 1,000 houses which will ultimately be provided. Mr. J. S. Maclay, Secretary of State for Scotland, opened a new house in the Johnstone Castle scheme recently, and congratulated the town on its enterprise.

Of the 1,000 houses to be provided under this agreement, half will be built by the Town Council with the aid of a special subsidy from the Exchequer and the remaining half will be built by the Scottish Special Housing Association entirely at government expense. The town is now co-ordinating its own rehousing development with its overspill commitments and has given an assurance that the intake of Glasgow families will not mean any loss of precedence to the local inhabitants.

In addition to the Johnstone Castle scheme, the town is developing other vacant sites within the boundaries, acquiring derelict land and carrying out renovations to existing property.

A feature of the Johnstone offer on overspill is the fact that the town has a number of factories already available to industrialists prepared to move from Glasgow. Two firms have already transferred to the town, one of which, the Regent Tyre Co. Ltd., has been allocated houses for its workers.

Dundee Central Redevelopment

DUNDEE CORPORATION is to choose between three plans for its city centre development. The schemes have been completed by Ravenseft Properties Ltd. London and the Howard Collings Group, of London. The third scheme is a local one, namely the Murrayfield Real Estate Co. Ltd. of Edinburgh and London with Ian Burke, Dundee, as architect.

This last scheme envisages a three phase development framing a modern shopping and commercial centre around the existing churches. Two-level shopping is proposed for the main square behind the churches, large department stores are also included. An 11-storey office block is proposed at the east end as a new city land mark. It is hoped to complete the scheme in three to five years.

£500,000 Plant at East Kilbride

A NEW factory, costing £500,000, is to be built by Holland & Hannen and Cubittts (Scotland) Ltd. for Holyrood Knitwear, Ltd. Due for completion within 15 months the factory will consist of a single-storey block, steel framed, with a steel deck roof. Showrooms and a large canteen form part of a two-storey office building in front of the factory block.

NEW BUILDINGS

Annan Burgh.—Modifying landheads water ply system; roofing clear water tank, sub-dividings and filters, micro-straining unit and all allied work. Kyle & Frew, 9 Clairmont-gdns., Glasgow, C3.

Ayr CC.—Police station and two four-apartment houses at Drongan. Est. cost £10,000.

Caithness CC.—Water contract B16: One mile of 4in. dia., 8 miles of 3in. dia., and 13 miles of 2in. dia. asbestos cement mains in Halkirk, Reay, and Thurso. Documents after August 21. County Offices, Wick. Offers due August 31. Dep. £5.

Dumfries CC.—Improvement of Gretna-Dumfries road, between Carrutherstown and Hardgrove crossroads. Est. cost £24,000.

Dumfries CC.—Strengthening and widening of Gilnockie Bridge, nr. Langholm, on the Edinburgh-Carlisle road. Est. cost £14,000.

Edinburgh Corpn.—Glencorse Reservoir: Masonry wave wall of 164yds. length on embankment. Documents from City Water E, 6 Cockburn-st., Edinburgh, September 3.

Haddington Burgh.—Sewage purification works near Abbey Bridge, Haddington:—Pumping station, detritus and overflow channels, settling tanks, sludge digestion tanks, and drying beds. Carfrae & Morrison, Chce, 4 Hill-st., Edinburgh, 2. TC. Tenders by August 29. Dep. £2 2s.

Kirkcaldy.—Victoria hospital:—(a) Low pressure hot-water heating system and steam and condense services to cooking equipment, and (b) glazed kitchen canopies with mechanical extract ventilation and plenum heating system to dining room at Victoria hospital. Applications to the Secretary, South-Eastern Regional Hospital Bd., Scotland, 11 Drumsheugh-gdns., Edinburgh.

Millport Burgh.—Reconstruction of Millport pier in Greenheart and Pitch Pine. Names to Cowan & Linn, Chce, 1 Clifton-pl., Glasgow, by August 21.

Renfrew CC.—Laying of sewers and water mains on trunk road A77. Names to County E, 16 Back Sneddon-st., Paisley.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s.	d.
1st	25	52	3
2nd	33⅓	69	8
3rd	50	104	6
4th	66⅔	139	4
5th	75	156	9

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	4	2½
Operatives on labouring operations (at end of probationary period)	3	8½

The Builder FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

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BUILDING

AUGUST 24

***†Watford BC.**—Two bungalows and two houses at Garston Park estate. Boro'E&S. Dep. £2 2s. Tenders by September 14.

AUGUST 25

***†Slough BC.**—Four houses at Wood-la., Cippenham. Boro'E. Dep. £2 2s.

AUGUST 26

***†Plymouth City C.**—(a) Science and administration block at Plymouth and Devonport Technical College, Tavistock-rd., and (b) public conveniences at Granby-way, Devonport. City A. Dep. £3 3s. each contract.

AUGUST 28

***†Bedford BC.**—Sports pavilion at Newnham sports centre, Barker's-la. Boro' E&S.

***†Birmingham City C.**—Firm price tenders for tenants' meeting room at Bottetourt-rd., Weoley Castle. City A. Dep. £2 2s. Tenders by September 25.

***†Bristol City C.**—Fixed price tenders for family group home, Begbrook-la., Stapleton. City A. Dep. £2 2s.

***†Newcastle Regional Hospital Bd.**—Adaptations and extensions to Fulbeck Grange, Northgate and District Hospital, Morpeth. Secretary to Bd.

***†Newcastle Regional Hospital Bd.**—Extensions to ante-natal clinic at Richard Murray hospital, Blackhill. Secretary to Bd., Benfield-rd., Newcastle upon Tyne, 6.

***†Surrey CC.**—Four pairs of police houses and access road. County A.

***†Swindon BC.**—101 and 75 dwellings (two contracts) at Park North neighbourhood. TC.

AUGUST 29

***† Essex CC.**—(1) Two classrooms and conversion, Romford Squirrels Heath CP sch: (2) adaptations and improvements, Rainham CP sch.; (3) additional classroom, etc., Little Clacton CP sch.; (4) science laboratory, etc., Ongar county sec. sch.; (5) assembly hall, South Benfleet county infants' sch.; (6) branch library, Shenfield. County A.

***†Essex CC.**—Firm price tenders for:—(a) Ambulance station at Frinton-on-Sea. (b) Two additional classrooms and stores at Great Waltham prim. sch. County A.

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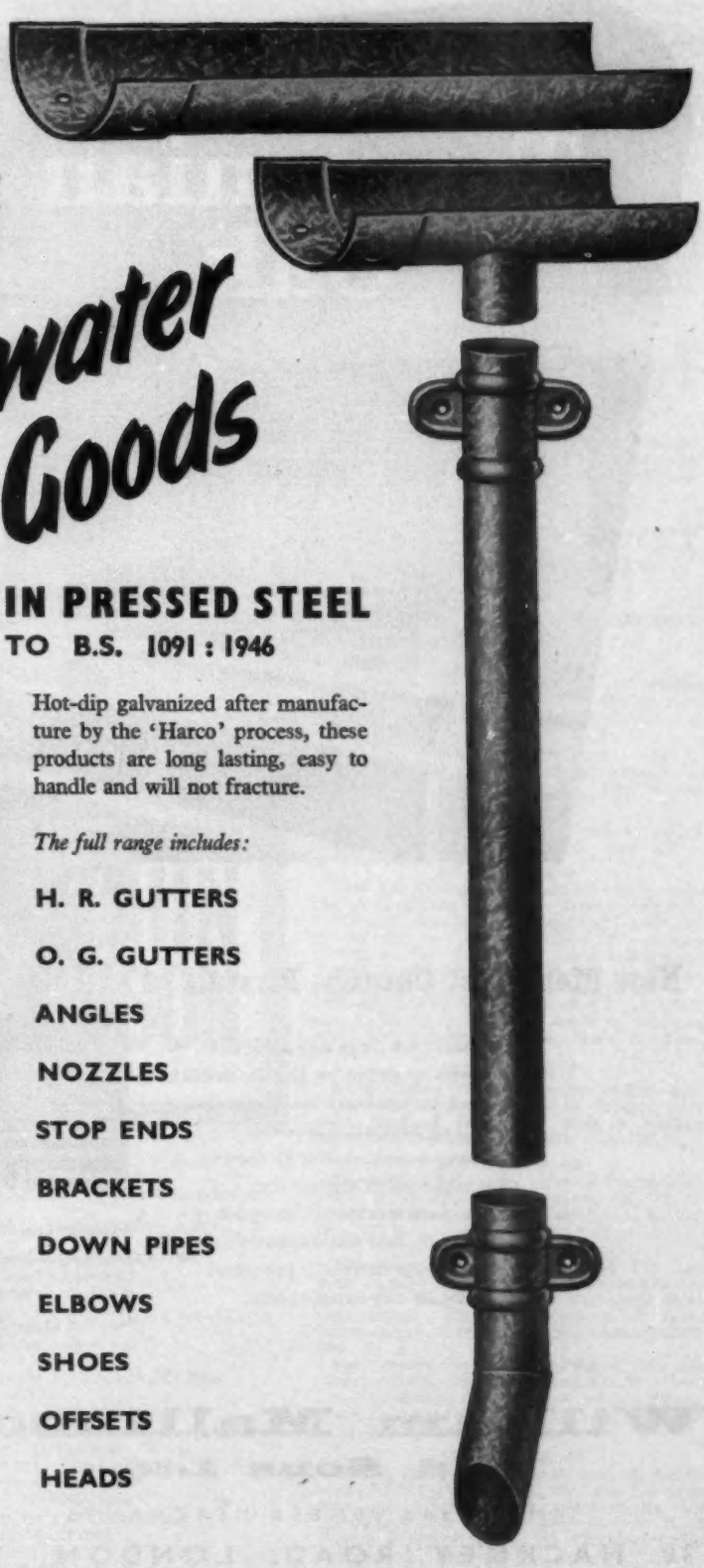

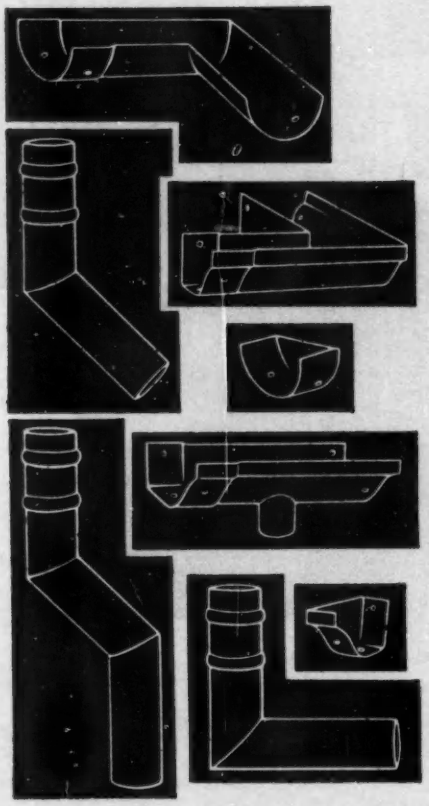

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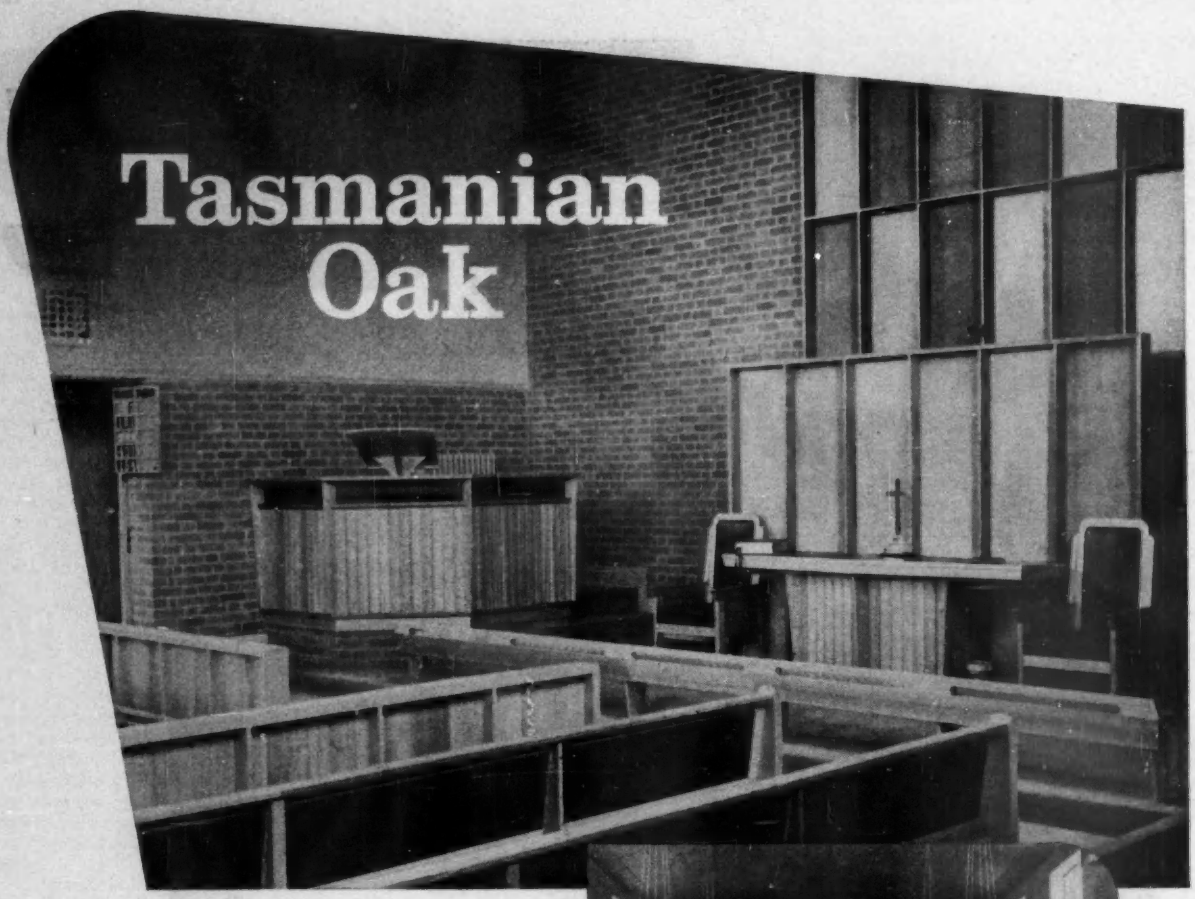

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AUGUST 31

***Hereford City C.**—Brick front boundary walls at Crossfields. CityA. (Housing). Dep. £1 1s.

SEPTEMBER 1

***†Axminster RDC.**—42 dwellings. A: F. S. Kett (L), Trinity-sq., Axminster, Devon. Tenders by September 26.

***†Bristol Corpn.**—Fixed price tenders for 29 flats at Goffenton-drive, Oldbury Court,. City A. Dep. £2 2s.

***†East Suffolk Standing Joint Com.**—Firm price tenders for three police houses at Lowestoft, with outbuildings. County A. Tenders by September 25.

***†East Sussex CC.**—Proposed extensions to home for aged people at St. Bridgets, Bexhill. County A.

SEPTEMBER 2

***†Dudley CBC.**—Fixed price tenders for 60 flats, three old persons' cottages and 12 garages at St. Gile's-st. redevelopment, Netherton. Boro' A. Dep. £2 2s.

***†Norfolk EC.**—Agricultural implement shed at County Technical College, King's Lynn. Ch. Education Officer.

***†Southend-on-Sea CBC.**—15-storey office block, at Civic Centre, Contract No. 1. Boro' A.

SEPTEMBER 4

***Bognor Regis UDC.**—Fixed price tenders for 10 r.c. garages at Orchard-way. E&S.

***Cuckfield UDC.**—Dressing rooms at Queen's Hall. S. Dep. £1 1s.

***†Sheffield Regional Hospital Bd.**—Erection of new Mount Vernon hospital, Barnsley, Yorks. A: E. F. Wilson (A), Fulwood House, Old Fulwood-rd., Sheffield, 10.

SEPTEMBER 5

***Havant and Waterloo UDC.**—Fixed price tenders for pavilion at Front Lawn recreation ground, Leigh Park, Havant. E&S.

***Mitcham BC.**—Public conveniences at Lewis-rd. recreation ground. Boro' E&S.

SEPTEMBER 7

***Chorley BC.**—12 flats at Tootell-st. and 8 flats at Jackson-st. (fixed price tender). Boro'E. Dep. £3 3s.

***Huntingdonshire Standing Joint Com.**—Fixed price tenders for one police house, office and garage at Kimbolton. County A.

***Montgomeryshire EC.**—First phase of County library, Newtown. Director of Education. Dep. £2 2s.

***Romford BC.**—Precast concrete building at St. Neots adventure playground, Harold Hill. Boro'E&S. Dep. £2 2s.

***Swinton and Pendlebury BC.**—16 flats. Boro' E.

***†Warwickshire CC.**—Inclusion in approved list. County A.

SEPTEMBER 10

***Oldham EC.**—Additions and alterations at Strinesdale open air sch. Cameron & Middleton (F/ARICS), 21 Queen-st. Dep. £2 2s.

SEPTEMBER 11

***Reading CBC.**—Firm price tenders for 103 garages on 11 sites on six housing estates. Boro' A.

***Staveley UDC.**—42 houses at Inkersall Green estate. E&S. Dep. £1 1s.

SEPTEMBER 14

***Basingstoke BC.**—46 dwellings, one shop and 49 garages south of St. Peter's-rd. Boro'A. Dep. £2 2s.

SEPTEMBER 15

***Bournemouth CBC.**—Social hall and library at Cunningham-cres., Kinson estate. Boro'A. Dep. £2 2s.

***Brighton CBC.**—Fixed price tenders for five-class prim. sch. at Westdene. Boro' S, E and Planning Officer. Dep. £2 2s.

***East Riding of Yorks. CC.**—Two houses on site of county sec. sch. at Barlby. C. Dep. £2.

***Leyland UDC.**—Fixed price tenders for 20 houses at Lower House estate. E&S. Dep. £2 2s.

***Portsmouth City C.**—(a) 15 flats at Prince George-st.; (b) 13 flats and maisonettes at Spencer-rd., and (c) three shops, 15 flats and maisonettes and garages at Middle Park-way, Leigh Park. City A. Dep. £1 1s. each contract

SEPTEMBER 18

***Heston and Isleworth BC.**—36 flats, 96 houses and 65 garages at Cranford-la. (North) housing estate. Boro'S. Dep. £2 2s.

***Rutland CC.**—Prim. sch. at Great Casterton. County A. Dep. £2 2s.

SEPTEMBER 21

***Chatham BC.**—Fixed price tenders for garages and stores, etc., at Brook depot. Boro' E&S. Dep. £2 2s.

SEPTEMBER 23

***Godstone RDC.**—16 flats at High-st., Dormansland. E&S. Dep. £2 2s.

SEPTEMBER 24

***Chelmsford BC.**—Fixed price tenders for public conveniences at Melbourne-ave. Boro'E. Dep. £2 2s.

***Eastbourne CBC.**—Conversion of No. 1 Old Orchard-rd. into ground floor flat and maisonette on two upper floors. Boro' S. Dep. £2 2s.

SEPTEMBER 25

***New Sarum City C.**—Fixed price tenders for coach station, with ancillary works, at swimming bath car park, Castle-st., Salisbury. City E.

SEPTEMBER 26

***Ealing BC.**—Stonework repairs to main elevation of Town Hall. Boro' S. Dep. £5.

OCTOBER 6

***York City C.**—Two-form entry instalment of three-form entry Low Fields county sec. sch., Acomb. City A. Dep. £3.

NO DATE

***Bootle CBC.**—(a) Roof tiling; and (b) plastering to 28 dwellings at Marsh-la., redevelopment area. BS.

***Tamworth RDC.**—New council offices and administration centre, garage and alterations to public mortuary and other buildings at Council's depot, Tamworth-rd., Kettlebrook, Wilnecote. A: E. W. Haysom (F), Curtis-hse., Poplar-rd., Solihull, Warwicks. Dep. £2 2s

SERVICES, PAINTING, MATERIALS, ETC.

SEPTEMBER 4

***Great Yarmouth CBC.**—Fixed price tenders for electrical engineering services in eight aged persons' dwellings and communal unit at Addison-rd., Gorleston. Boro'E. Dep. £2 2s.

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MANCHESTER 3. 22 Bridge Street
NEWCASTLE-ON-TYNE, 1. Pudding Chare
SOUTHAMPTON. 41 Lower Canal Walk

SEPTEMBER 5

***†Cornwall CC.**—Sub-contracts for (a) structural steelwork, and (b) aluminium windows and doors in connection with new county sec. schools at Bodmin and at Penryn. County A.

***†Cornwall CC.**—Fixed price tenders for the following sub-contracts; (a) cork and PVC flooring; (b) suspended precast concrete floors; (c) joinery fittings, screens, doors and windows (supply only); (d) passenger lift and machinery; (e) heating, hot and cold water services, and (f) electrical installations. County A.

SEPTEMBER 7

***Wimbledon BC.**—Repair and repointing of old boundary and internal walls at Cannizaro Park, Wimbledon, and Randalls Park estate, Leatherhead. Open Spaces Superintendent, Cemetery Office, Gap-rd. Dep. £1.

SEPTEMBER 11

***Reading CBC.**—Firm price tenders for removal of injector hot water systems and supplying and fixing 199 gas water heaters at Whitley estate. TC.

OCTOBER 5

***Irlam UDC.**—Removal of baths, washbasins and piping in 1,300 houses and replacement with new bathroom equipment (in separate contracts of 50). E&S. Dep. £1.

OCTOBER 9

***Woking UDC.**—Installation of hot and cold water systems in pre-war houses at Horsell, Knaphill and Woking. E&S. Dep. £2 2s.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

AUGUST 25

Warrington CBC.—2,400 lin. yd. of pitched carriageways and 4,000 lin. yd. of 6in. to 36in. dia. sewers on Orford neighbourhood unit, site No. 11. Boro' S. Dep. £2 2s.

AUGUST 31

Abertillery UDC.—Road improvements at Hafodyrynys-rd., Crumlin. E&S. Dep. £5 5s.

SEPTEMBER 3

Durham CC.—Steel deck for railway bridge at Black-rd., Ryhope. County S. Dep. £10.

SEPTEMBER 4

Cork CC (North Cork District).—Water supply to Clondulane village. Service reservoir, 31,000 gall. capacity, meter chamber; 4,006 lin. yd. of 4in. to 1½in. dia. Class 'B' asbestos cement, or PVC piping, with valves and fittings. Tender documents from Secretary, Cork CC, £1 per set (not returnable). Dep. £10 10s.

Slough BC.—1,680 lin. yd. of CI soil sewer and 2,160 lin. yd. of SW sewer in concrete tubes, etc., at Langley High-st. Boro' E. Dep. £2 2s.

SEPTEMBER 7

North Devon Water Bd.—One million gall. r.c. covered service reservoir at Brentor, four miles north of Tavistock. Rofe & Raffety, engrs., Buckingham Gate, SW1. Dep. £2 2s.

SEPTEMBER 10

Down NI, CEC.—New technical intermediate school at Montgomery-rd., Belfast. QS: W. H. Stephens & Sons, 13 Donegal-sq. North, Belfast. Dep. £5 5s.

SEPTEMBER 14

Hiraethog RDC.—Llandoget and Tan Lan water supply—3½ miles of AC mains and fittings up to 4in. dia., small intake works and treatment house. Howard Humphreys & Sons, constg. engrs., 8 Francis-st., Westminster, SW1. Dep. £5 5s.

Lee Conservancy Catchment Bd.—Flood alleviation scheme—3,920ft. of reinforced precast concrete culvert, demolition of existing culvert, sewer diversions and other works at Tottenham. E to Bd. Dep. £5.

SEPTEMBER 18

Devizes RDC.—Water supply to south western area—5,500 lin. yd. of 6in., 4in., and 3in. spun-iron and asbestos-cement water mains, and 250,000-gall. r.c. service reservoir. A. H. S. Waters & Ptnrs., engrs., 25 Temple-row, Birmingham, 2. Dep. £5 5s.

SEPTEMBER 28

Northumberland CC.—Road bridge, 400ft. long, over River Blyth, between Bebside and Sleekburn and three mass concrete retaining walls at north end of Bedlington railway viaduct. County S. Dep. £26 5s.

GENERAL BUILDING WORK

(LONDON)

Chelsea.—SCHOOL.—David Stokes & Ptnrs. (F), 5 Cochrane-st., NW8, are the architects for a new grammar school with 120 places at Stewarts-gro., Sydney-st., SW3.

Chelsea.—HOUSES, FLATS AND MAISONETTES.—Messrs. Stone, Toms & Ptnrs., 28 South Audley-st., W1, are the architects for the redevelopment of the site of 1-15 Royal-ave. and 3-7 Walpole-st. by houses, flats and maisonettes

Chelsea. — SHOPS, SHOWROOMS, OFFICES, FLATS AND GARAGES.—Basil Hughes (F), 6 Cadogan-mans., Sloane-sq., S.W1, is the architect for a scheme of redevelopment comprising shops with showrooms, offices, flats and garage accommodation on the site of 127-131 (consec.) Sloane-st. and 233-241 (odd) Pavilion-rd., SW1.

Fulham.—FLATS AND GARAGES.—A block of 20 flats, with eight garages, is proposed on the site of 63-65 Lillie-rd. by Richard E. Tinson, 325 Preston-rd., Harrow, Middx.

Fulham.—DWELLINGS.—Outline proposals for the replacement of temporary buildings on the site of 41-49 and 56-64 Edith-rd. and 2-8 Trevanion-rd., SW14, by permanent housing accommodation have been prepared by the Boro' Architect and Director of Housing, E. A. H. MacDonald (A), on behalf of the MBC.

Hammersmith.—MULTI-STOREY CAR PARK.—Michael R. Blampied & Ptnrs. (A), 63a, Great Russell-st., WC1, are the architects for a multi-storey car park proposed between the church hall and the old town hall, Brook Green-rd.

Holborn.—OFFICES, SHOWROOMS, GARAGE AND DWELLINGS.—A new building comprising showrooms and residential accommodation, with a garage at basement level is proposed on the site of 114-118 Southampton-row. The architects are Fitzroy Robinson & Ptnrs. (F), 3 Gray's Inn-sq., WC1.

Kensington.—FLATS.—A new block of flats is proposed on the site of 29-30 Powis-gdns. and 1 Powis-sq., W11, by Land and General Developments, Ltd. The architects for the scheme are Dinerman, Davison & Hillman (A), 15-17 Perrins-la., NW3.

Kensington.—HOUSES.—Nine 7-roomed houses are proposed on the site of 10 South Bolton-gdns., SW5. The architects are Messrs. Stone, Toms & Ptnrs., 28 South Audley-st., W1.

Kensington.—FLATS AND GARAGES.—Andrews, Emmerson & Sherlock (A), 63 Dean-st., W1, are the architects for 22 flats with garaging, etc., proposed on the site of 51-57 Ladbroke-gro., W11.

Paddington.—FLATS AND CAR PARK.—A block of 40 flats, with underground cark park, is proposed on the site of Falmouth-hse., 27-30 Hyde Park-pl., W2. The architects for the scheme are J. Stanley Beard, Bennett & Wilkins (F/A/L), 101-103 Baker-st., W1.

St. Marylebone.—FLATS AND GARAGES.—42 flats, with garage accommodation for 24 cars, are proposed on the site of 30-38 Harley-st., 14-16 Queen Anne-st. and 3 Mansfield-mews. The architects are Leo Hannen & Associates (L), 6 Woods-mews, Park-la., W1.

St. Marylebone.—SHOPS, BANK, OFFICES AND DWELLINGS.—Fitzroy Robinson & Ptnrs. (F), 3 Gray's Inn-sq., WC1, are the architects for the proposed redevelopment of the site of 112-130 Edgware-rd. and 136-138 George-st., W1, by shops, bank premises, offices and residential accommodation.

St. Pancras.—HOUSES, SHOPS, MAISONETTES, FLATS AND RESTORATION.—The MBC has decided to withdraw its objection to the proposed redevelopment of a site in Chester Terrace-mews and Albany-st. by new shops, houses, maisonettes and flats and the modernisation of the Regency houses at Chester-terr., in view of the fact that the proposed development is in accordance with the Crown Commissioner's overall scheme for the Regent's Park terraces. The architect is Louis de Soissons, CVO, RA, (F), MTPI, 3 Park Square-mews, NW1.

Westminster.—OFFICES AND FLATS.—Redevelopment of the old Stag Brewery site, Palace-st., by one 20-storey and two 13-storey blocks of offices and two 14-storey blocks of residential flats is proposed by the City of London Real Property Co. The architects for the scheme are Howard Fairbairn & Ptnrs. (F/L/A), 81 Piccadilly, W1, and Trehearne & Norman, Preston & Ptnrs. (F/L/A), 83 Kingsway, WC2.

Wimbledon.—OFFICE BUILDING.—BC has given permission for the erection of a 3-storey office building on the site of the former Congregational Church, Worple-rd.

Wimbledon.—FLATS.—BC has given provisional permission to outline application to erect 26 flats in 3-storey blocks and 19 garages on site of 80-90 Cottenham Park-rd., involving demolition of three existing houses on the site.

Wimbledon.—FLATS.—BC has given permission to application to erect block of 12 flats on the site of Grange Lodge Hotel, 13 The Grange.

Wimbledon.—FLATS.—BC has given provisional permission to erection of a 2-storey block of four 3-roomed flats at rear of 53 Cottenham Park-rd., fronting Durham-rd., with 4 garages.

Wimbledon.—HOUSES.—BC has given provisional permission to outline application to erect eight 3-roomed terrace houses and eight lock-up garages on land adjoining Pitman's College, Worcester-rd.

(PROVINCIAL)

Aldridge, Staffs.—Industrial Buildings (Birmingham) Ltd., propose 72 houses between Erdington-rd. and Birmingham-rd.

Birmingham.—TC approved scheme for occupation centre at Fox Hollies, £30,300 est.—Approved plans for 17 shops and 36 dwellings at Birchfield-rd. and Wellington-rd., £156,950 est.—Approved in principle 16 four-storey dwellings at Church-walk, Ward End, £34,232 est.—14 aged persons' bungalows at Hawthorne-hse Lodge, £22,736.—24 four-storey dwellings at Hillaries-rd., Erdington, £59,210 est.—16 houses at Hillyfields estate, £33,376 est.—28 dwellings at Rednay-rd., West Heath, £55,348 est.—58 dwellings at Woodcock Hill estate, £108,494 est.—75 dwellings on various small sites, £139,051 est.—178 dwellings on Calthorpe Park site, £436,210 est.; and 569 dwellings in Chamberlain-gdns. area, £1,338,687 est.—Regional Hospital Bd. proposes central kitchen and staff dining block at Hallam hospital, West Bromwich, £89,000 est.; casualty block at North Staffs. Royal Infirmary, Stoke-on-Trent, £274,256 est.

Blaydon.—W. & T. R. Milburn (A), 18 Fawcett-st., Sunderland, are A for proposed offices for Shell Mex and BP Ltd.

Bury.—Manchester City C proposes 1,236 houses with 2 to 4 bedrooms, 506 two-bedroomed flats, 36 one-bedroomed flats, 20 aged persons' bungalows and 52 bedsitter flats at Heap Bridge.

Carlisle.—A. S. Nixon Ltd., 83 Lowther-st., propose 100 houses between Brookside and Green-la.

Coventry.—TC approved scheme for multi-storey block of 156 dwellings in Hope-st., Adderley-st. area.

Coventry.—City C approved scheme to build 36 shops with roof car parking for 116 cars at Market-way, £228,600 est.

Coventry.—City C seeks loan sanction of £175,000 for 1,200 garages for various housing estates.

Coventry.—HC proposes 52 dwellings in 10-storey blocks at Yardley-st. £117,000 est.

Daventry.—BC approved plans for 44 houses at Inlands estate for Chowns Ltd., Northampton.

Crook and Willington.—Page, Son & Hill (F), 75 King-st., South Shields, to prepare plans for 50 houses at Watergate estate, Crook, for UDC.

Dukinfield.—BC approved plans for 112 bungalows off Lodge-la. for Dean and Whitt Ltd., 126 Clarendon-rd., Hyde.

Heywood.—Manchester City C. proposes new overspill housing site of 1,850 dwellings; including 9 blocks of 10-storey flats.

Jarrow.—Scheme for shopping centre in Grange-rd. area for Arndale Property Trust, Swan Arcade, Bradford, being considered by planning authorities. Scheme includes 70 shops in two stages. A: Shingler & Risdon (F), 44 Bedford Row, WC1.

Lancs.—EC proposes new combined county Institute of Agriculture, £488,872 est.

Lancs.—CC approved in principle Stage 3 of new Royal Technical College at Salford.

Leamington Spa.—BC to prepare working drawings for 8-storey blocks of flats at Lillington estate.

Leeds.—TC approved erection of 60 houses at Moor Grange; 120 at Cow Close; 80 at Swinnow area No. 5; 120 ten-storey flats at Eborgdns. and Lincoln Green; 40 houses on various sites; 36 three-storey flats at Leafield; 12 three-storey flats at Broomfields-hse. and 30 two-storey dwellings at Seacroft.

Manchester.—TC approved plans for 2-storey departmental store with 6-storey office block over at Market-st., Corporation-st., and Market Place for Unicos Property Co. Ltd. A: Cruickshank & Seward (F), 19b Deansgate, Manchester.

Middlesbrough.—Shannon (Contractors) Ltd., 44 Marsh-rd., Middlesbrough, to erect 50 bungalows, 19 houses, and two shops at Acklam-rd., and layout plans provisionally approved. Firm also plans 17 houses at Low-la.—A. E. Gray & Son Ltd., builders, Tynedale-st., Stockton, to erect 40 houses at corner of Thirlmere-ave. and Church-la., to plans by J. S. Houghton (L), 9 Skinner-st., Whitby.

Northampton.—BC proposes two 12-storey blocks of flats in central area. Constg. engrs.: W. V. Zinn, Collingham-hse., Eagle-st., WC1.

Nottingham.—TC proposes new civic theatre, art gallery and block of flatlets at Wellington-circus. A: Peter Moro (F), 71 Blandford-st., W1.

Oswestry.—BC proposes 144 houses and 12 aged persons bungalows at Unicorn Fields and 99 houses at Yorkfields.

Penrith.—UDC to prepare plans for 24 two-bedroomed houses nr. Barco Bank, Wetheriggs.—Approved plans for new sch. at Wetheriggs-la. for Cumberland CC.

Peterborough.—British Railways propose rebuilding Peterborough (North) station and construction of new marshalling yard and engineering maintenance depots. Regional A: H. H. Powell (F), King's Cross Station, N.1.

Plymouth.—City C to build new bridge over River Plym at Laira. £625,000 est. City E&S.

Portsmouth.—Health and Housing Com. of CC approved development in Wingfield-st.-Cressy-pl. area of Landport to provide 294 dwellings, old people's home, extension to Church-st. jun. sch. and lock-up garages.

Prudhoe, Northumberland.—George Wimpey & Co Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne, have acquired 12 acres of land at Moor-rd for erection of 100 houses.

Queenborough, Kent.—Abbott Laboratories Ltd., of 8 Baker-st., W1, have acquired site from Admiralty for new chemical works.

Ramsgate.—TC approved in principle redevelopment of derelict Newcastle-hill area and land at Plains of Waterloo by six- and nine-storey blocks of flats, maisonettes, shops and garages. £250,000 est.

Redcar.—Redcar Racecourse Co. Ltd., proposes new grandstand costing £50,000.

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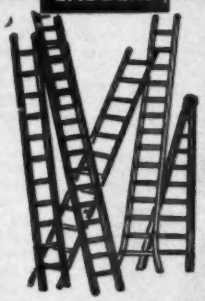
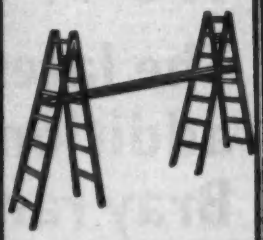


TRESTLES



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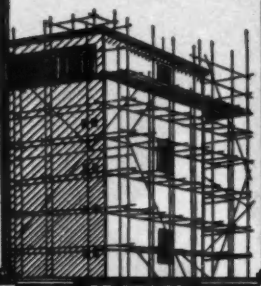
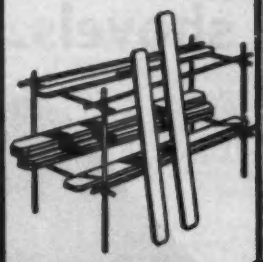


SCAFFOLD BOARDS



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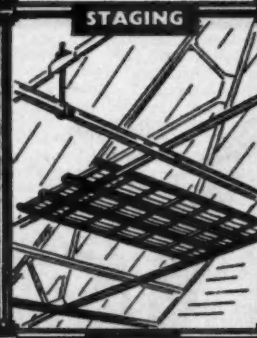

WHEELBARROWS

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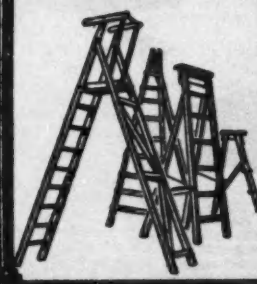

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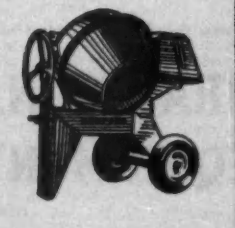

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Redcar.—TC to build further 150 houses on Lakes neighbourhood site. Plans by Boro' E.

Rugby.—Ravenseft Properties Ltd., London, propose 11 shops, showrooms and offices at Church-st. and Market Place. A: Messrs. Lionel H. Fewster & Ptnrs., 22 Conduit-st., W1.

Runcorn.—UDC appointed Shingler & Risdon (F) as A and H. G. S. Groves & Ptnrs. as QS for central town redevelopment scheme (new market hall).—Approved plans for cooling and crushing sheds, coke and lime silos and conveyor for new carbide plant at Castner Kellner Works for I.C.I. Ltd., General Chemicals Division.

Scarborough.—TP Com. approved outline scheme for 182 houses at Filey-rd. for M. J. Liddell & Son, builders, Great North-rd., Newcastle-on-Tyne.

Shaftesbury.—BC approved Prison Commissioners' plan to establish open Borstal at former military hospital at Guy's Marsh. Inquiry to be held.

Stafford.—Five Counties Housing Assn. proposes 15-storey block of 160 flats. £400,000 est.

Stockton-on-Tees.—Aycliffe Properties Ltd., propose offices, etc., in Dovecot-st. area, £100,000 est.

Stockton-on-Tees.—Jarman & Flint Ltd., Tynedale-st., Stockton, propose building 20,000 sq. ft. warehouse at Portrack-la. estate.

Stretford.—HC proposes tower block of flats in Cornbrook Park-rd. area and is to invite tenderers to submit own schemes.

Winchester.—MH&LG approved City C's proposal, based on report by late Sir Patrick Abercrombie, for comprehensive development of Brooks area.

TENDERS

* Denotes *accepted*.
† Denotes *provisionally accepted*.
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

Aldershot.—84 'Homeville' dwellings at Heron Wood estate for BC. Boro' E&S: F. W. Taylor, MICE. *Boucher & Dobson, Ltd., High-st., Aldershot. £101,449.

Birkenhead.—Two classrooms and general science laboratory at St. Anselm's College for Bd. of Governors. *Tysons (Contractors) Ltd., Dryden-st., Liverpool.

Birmingham.—Building works tenders accepted in July, 1959. City A: A. G. Sheppard Fidler (F), MTPI. 6 shops and 26 dwellings at Mickleton-ave., Garretts Green. *W. J. Simms, Sons & Cooke Ltd., 133 Marshall Lake-rd., Shirley, Solihull, Warwicks. £76,481.—270 dwellings and nursery school at Nechells Green redevelopment area. *Wates Ltd., 1258-60 London-rd., Norbury, SW16. £753,379.—6 dwellings at Kitsland-rd., Shard End. *W. J. Simms, Sons & Cooke Ltd., 133 Marshall Lake-rd., Shirley, Solihull, Warwicks. £11,509.—Alterations and extensions to Vittoria restaurant, Frederick-st. *Hinckley's Building Contractors Ltd., 188 Lodge-rd., Winson Green, Birmingham, 18. £12,893.—New refuse disposal and salvage works, Lifford-la., Kings Norton. *Wilson Lovatt & Sons Ltd., Clarence-st., Wolverhampton. £268,404.—Paget-rd. mod. sch., reorganisation. *T. Johnson (Contractors) Ltd., Alma-cres., Birmingham, 7. £14,640.—St. George's CE jun. sch., erection. *F. Deeley Ltd., 210 High-st., Harborne, Birmingham, 17. £50,019.—Shenley Court comprehensive sch., playing fields and landscaping. Bradshaw Bros. (Contractors) Ltd., 117a Loughborough-rd., Leicester. £27,395.

Bradford.—160 dwellings and roads and sewers at Allerton estate for TC. *Direct labour. £288,535 and £107,221.

Brierley Hill.—50, 42 and 36 houses at Market-st. site for UDC. *Buildings and Equipment Ltd., 55 Darlington-st., Wolverhampton. £58,185, £51,473 and £44,380.

Cardiff.—Fixed price tenders for multi-storey car park at Wood-st. for City C. City A: J. Dryburgh (A). Ch. QS: C. Lockton, ARICS. *Building & Construction Co. Ltd., Shockcrete Works, Hoddesdon, Herts. £158,539.

Cookham.—14 houses and 18 flats at Whiteladies-la., Cookham Rise, for RDC. *Halfacre & Young. £76,609.

Coventry.—Flats with motor showroom on ground-floor at Corporation-st. for TC. *Geo. Wimpey & Co. Ltd., London. £60,984.

Cumberland.—Boys' sec. sch. at Penrith and new sch. at Skelton for CC. County A: J. H. Haughan (F), Portland-sq., Carlisle. *R. E. Reay & Son (Penrith) Ltd., Great Dockray, Penrith.

Hartlepool.—Four-storey office block for Richardsons Westgarth (Hartlepool) Ltd. adjoining company's existing head office at Princes-st. A: L. J. Couves & Ptnrs (F). *Holland & Hannen and Cubitts (Scotland) Ltd. £100,000.

Ipswich.—Three-storey office block (30,000 sq. ft.) on Sedan-st/New Cardinal-st./Quadding-st./Princes-st. site for Fisons Pension Trust Ltd. (for occupation by Fisons Ltd., South Eastern Sales). A: Johns, Slater & Haward (F/A), 32 Foundation-st., Ipswich. Constg. engrs: Felix Samuely & Ptnrs., London. QS: Caston & Porritt, Ipswich. *Walter Lawrence & Sons Ltd., Sun-st., Finsbury-sq., EC2.

Lancs.—Following for CC:—New branch library at Prescot. *A. McColl & Son (Builders) Ltd., St. Helens. £27,891.—New branch library at Aintree. *Hawthorne Building and Construction Ltd., Bootle. £23,194.

Leeds.—132 dwellings in 11 blocks at Armley Heights, Brackenwood and Moor Grange estates for TC. *Geo. Wimpey & Co. Ltd., London. £175,285.

Lincoln.—Fixed price tenders for 64 flats, 14 bungalows and 29 garages at Princess-st. redevelopment area. City A: R. R. Alexander (F). QS: A. E. Thornton-Firkin & Ptnrs. *F. R. Eccleshare Ltd., Dixon-st., Lincoln. £86,107.

Liverpool.—88 dwellings, 6 garages and site works, etc., on Park-st./Beaufort-st./Mornington-st./Yates-st. site for City C. ‡Direct labour. £161,556.

Liverpool.—Works for City C: Four dwellings and six shops at Hillside-ave., Woodfall Heath estate; 14 dwellings and seven shops at Lee Park-ave., Lee Park estate; and 51 dwellings on site of St. Martin's Market. ‡R. J. Barton & Sons Ltd., Altcar-rd., Formby. £25,664; £61,888; and £89,019.—Eight dwellings at Mirfield-st. ‡F. C. Bloomfield & Co. Ltd., 71 Almonds Green, Liverpool, 12. £17,391.

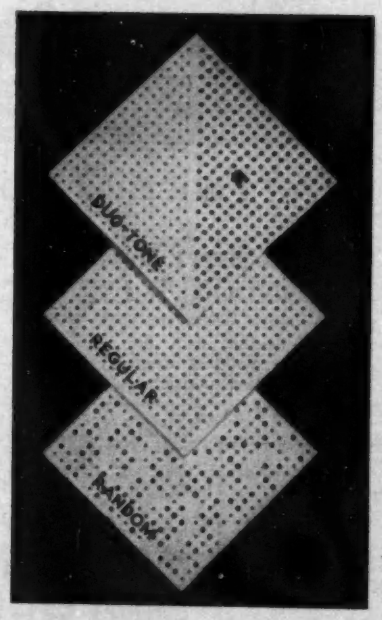
London (British Railways).—Contracts let by London Midland Region:—D. Lynch, 362 Stoney Stanton-rd., Coventry, for temporary station buildings at Coventry.—Harbour & General Works Ltd., St. Stephen's-hse., Westminster, SW1, for stanchion bases for crane gantries and sundry works at Crewe electric locomotive repair shop, also lightweight and main line diesel depot and ancilliary works at Cricklewood.—Leonard Fairclough Ltd., Adlington, Lancs., for reconstruction of Handforth station and adjoining bridge 80.—E. B. Jones & Rawlinson Ltd., 6 Leaf-sq., Salford, Manchester, 6, for new signal box at Manchester Victoria East junction.—The Demolition & Construction Co. Ltd., 3 St. James's-sq., SW1, for sundry buildings and alterations to goods shed at Bletchley in connection with flyover junction.—D. Anderson & Sons Ltd., Stretford, Manchester, for insulated metal roof coverings, cladding and ventilators for Crewe district electric depot.—Young, Austen & Young Ltd., 133-135 The Albany, Old Hall-st., Liverpool, 3, for removal of steam heating and installation of oil heating at Manchester Hunt's Bank and Victoria station offices.—William Hare Ltd., Weston-st., Bolton, for supply and erection of steelwork for alterations to high level roof at Manchester London-rd. station.—The Demolition & Construction Co. Ltd., 3 St. James's-sq., SW1, for Bletchley flyover—earthworks, and construction of intersection bridge over Cambridge branch.—Wm. Townson & Sons Ltd., Higher Swan-la., Bolton, for temporary accommodation in connection with reconstruction of Manchester London-rd. station.—Richards Structural Steel Co. Ltd., Phoenix Iron Works, Leicester, for supply and erection of steelwork for new foundry building, Crewe locomotive works.—Cox & Danks Ltd., Scapa Works, Langley Green, Oldbury, for removal of track and structures between Bramshall West Junction and Grindley, Stafford and Uttoxeter line.

¶London (Metropolitan Police).—Alterations to form new canteen, CO, New Scotland Yard. Charles R. Price. £11,190.

¶London (MoW).—Contracts placed for week ended August 8:—*Cambridgeshire:* Government Office Building, Brooklands-ave., Cambridge, drainage to various blocks, Coulson & Son, 37 St. Andrew's-st., Cambridge. *Derbyshire:* Automatic telephone exchange, Cawdy-hill, Mickleover, extension, A. Holmes & Sons Ltd., London-rd., Derby. *Kent:* Ministry of Supply, Aquila, Golf-rd., Bickley, top dressing felt roofs, H. V. Smith & Co. Ltd., 3 Melton-st., NW1. *Lanarkshire:* Post Office, 232 Broomielaw, Glasgow, renewal of windows and re-rendering of external walls, Wm. Crawford & Son (Contractors) Ltd., 10 Minerva-st., Glasgow, C3. *London:* War Office, Whitehall, SW1, renewal of mosaic flooring, Modern Tile & Floor Co. Ltd., 62 Brewery-rd., N7; National Maritime Museum, Greenwich, SE10, re-drainage, John Mowlem & Co. Ltd., 91 Ebury Bridge-rd., SW1; Somerset-hse., Strand, WC2, internal decorations, South London Decorators Ltd., 9 Streatham High-rd., SW16; General Post Office, St. Martin's-le-Grand, EC1, external decorations, J. W. Green (Painters) Ltd., 171 Graham-rd., SW19; 1 and 3 Sanctuary.bldgs., Gt. Smith-st., SW1, external painting, Walker Clinging & Co., 16 Perry-hill, SE6. *Middlesex:* Post Office storage depot, Poplar-rd., Ashford, alterations and additions to shed No. 3, W. S. Try Ltd., High-st., Cowley. *Nigeria:* Lagos, erection of Deputy High Commissioner's residence, Poletti Bros. & Co. Ltd., 35 Jones-st., Ebute Metta, Lagos. *Surrey:* Ministry of Agriculture, Food & Fisheries, Veterinary Research Laboratory, New Haw, Weybridge, erection of buildings on Grange and Manor farms, E. Clarke & Sons (Addlestone) Ltd., Addlestone, Weybridge. *Yorkshire:* Head Post Office, Northumberland-st., Huddersfield, internal decorations, F. Wood (Decorations) Ltd., 26a Water-st., Huddersfield.

¶London (War Dept.).—Work contracts placed for week ended August 17:—*Breconshire:* (Brecon & Curt-y-Gollen), grass cutting, Agrihortus Power Contractors, Abergavenny. *Berkshire:* (Reading), building, H. F. Johnson Ltd., Langley. *Dorset:* (Bovington Camp), roadwork, Ware Construction Co. Ltd., Bristol. *Hampshire:* (Aldershot), sterilizers, Dent & Hellyer Ltd., London. *Kent:* (Shorncliffe), roofing, Roberts Adlard & Co. Ltd., Maidstone. *London:* (W), miscellaneous, Frank R. Freeman Ltd., London. *Surrey:* (Pirbright), building, Rice & Son Ltd., London. *Wiltshire:* (Salisbury and Bulford Camp), painting, Fields Ltd., Reading. *Yorkshire:* (Strensall), heating, F. Shepherd & Sons Ltd., York.

Manchester.—Works for City C:—222 dwellings at Partington, 11 at Arlington-st., Crumpsall, and two at Hollins-la., Langley. *Direct labour (subject to MH&LG approval).



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Newport, Mon.—Filling station at Malpas-rd., for James & Emanuel Ltd. A: J. H. Evans (A), Tredegar-chbrs., Bridge-st., Newport, Mon. *Davies, Middleton & Davies Ltd., Cardiff.

Rugby.—31 houses at Abbotts Farm estate for BC. Boro' E&S. *Browning Construction Co. Ltd., 19 Hillmorton-rd., Rugby. £54,999.

St Marylebone.—16-storey block of 60 flats. 16 flats, 10 shops and 17 garages on Church-st. extension site for MBC. A: Bridgwater & Shepheard (F), 42 Bruton-pl., W1. QS: Crosher & James, 329 High Holborn, WC1. ‡Gee, Walker & Slater Ltd. £254,359.

Southampton.—Works for CBC: (a) 26 old people's flats and four houses at Brownhill-hse. (b) Five houses at Coxford-close. (c) 84 flats at Thornhill (Section 2B). Boro' E: F. L. Wooldridge, MICE. (a) *W. R. Hedges Ltd., Chandlers Ford, Hants., £39,380; (b) *A. E. Knight & Sons, Ltd., Southampton, £8,957; (c) *Howe & Bishop Ltd., Portsmouth, £132,698.

Thornaby-on-Tees.—79 dwellings and 19 garages at Humphrey's estate, for BC. Boro' E: J. L. Watson, MIMunE. QS: J. E. Myers, ARICS. *Robert B. Bainbridge Ltd., High-st., Stockton-on-Tees. £111,321 (subject to Ministry approval).

Tynemouth.—50 flats on scattered sites for TC. Boro' E: D. M. O'Herlihy, 16 Northumberland-sq., North Shields. *S. Hann, 10 Fairfield-dr., Tynemouth, £29,552 (24 flats). *Graham & Son, Forest-hill, Newcastle-on-Tyne. £33,100 (26 flats).

West Lancashire.—57 one-bedroomed bungalows at Aintree, Aughton, Halsall, Maghull and Rufford for RDC. *Sefton Building Co. Ltd., 67, Ormskirk-rd., Liverpool, 9. £64,261.

Westminster.—15-storey block of offices incorporating three-storey garage car-park on site of 76-124 Victoria-st., SW1, for the Land Securities Investment Trust Ltd. A: T. P. Bennett & Son (F/A), 43 Bloomsbury-sq., WC1. Constg. engrs.: Ove Arup & Ptnrs. QS: Gardiner & Theobald. *Taylor Woodrow Construction Ltd.

Westminster.—20-storey block of 160 flats and ancillary buildings at Hide-pl. for City C. A: Stillman & Eastwick-Field (A). *John Laing & Sons Ltd. £392,264 (fixed price tender).

Whiston.—Fixed price tenders for 302 dwellings at Sugar-la., Knowsley, nr. Liverpool, for RDC. E&S: Watson Garbutt. QS: Ernest R. Babbs & Son, Manchester. *Roy & Ptnrs. Ltd., 64 Blackfriars-rd., Salford, 3, Lancs. £429,000.

Wimbledon.—21 flats at Durnsford-rd. for use as halfway house accommodation. †Soar & Co. Ltd. £19,915 (fixed price tender).

Woolwich.—172 dwellings, communal laundry and garages on Strongbow-rd. temporary housing site for MBC. Boro' E&S: W. H. Gimson, OBE, MICE. *Direct labour. £351,467.

York (British Railways).—Recent contracts placed by North Eastern Region:—Reconstruction and extension of Hammerton-st. motive power deper, Bradford. Nicholson Harlow & Co. Ltd., Wakefield.—Prestressed concrete beams for Bridge No. 1, City Station, Leeds. Anglian Building Products Ltd., Norwich.—Roller conveyor and lifting equipment for locomotive works, Darlington. W. & C. Pantin, Ltd., Epping.—Supply of oil dispensing units for Heaton and Gateshead motive power depots, Beck & Co. (Meters) Ltd. London.—Oil storage tanks for Heaton motive power depot. Hatchett & Co., Hyde.

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OFFICIAL ANNOUNCEMENTS

COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS

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PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

COMPETITION

COUNTY OFFICES, TAUNTON.

Somerset County Council invite Architects registered under the Architects Registration Acts, and resident in Great Britain and Northern Ireland, to submit designs in competition for proposed new County Offices to be erected on a site at Taunton.

Assessors: The Hon. Lionel Brett, F.R.I.B.A., Mr. Geoffrey Jellicoe, F.R.I.B.A., and Mr. J. M. Richards, A.R.I.B.A

Premiums: £1,500, £1,000, £500.

Last day for submitting designs: 5.30 p.m. on MONDAY, 15th FEBRUARY, 1960. Last day for questions: 22nd SEPTEMBER, 1959.

Conditions may be obtained on application to The Clerk of the County Council, County Hall, Taunton, Somerset. Deposit: £2 2s. 0d. An applicant for the conditions must state his registration number.

CONTRACTS

HUNTINGDONSHIRE.

STANDING JOINT COMMITTEE.

POLICE HOUSING, KIMBOLTON.

FIXED-PRICE TENDERS are invited for the ERECTION of a POLICE HOUSE, OFFICE and GARAGE at Kimbolton: Bills of Quantities, Form of Tender and Drawing may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon.

Sealed Tenders in the endorsed envelope provided with no other identification marks, must be delivered by 12 noon on MONDAY, 7th SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest or any tender.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

CITY OF PORTSMOUTH.

TENDERS, based on Bills of Quantities, are invited for:

(a) 15 FLATS, Prince George-street;
(b) 13 FLATS and MAISONETTES, Spencer-road;
(c) 3 SHOPS, 15 FLATS and MAISONETTES and GARAGES, Middle Park-way, Leigh Park.

Contractors desirous of tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, and are advised to do so immediately as the date for the receipt of tenders is the 15th SEPTEMBER, 1959. They should state in which Contract(s) they are interested, enclosing a deposit of £1 for each Contract, returnable on receipt of bona fide tender(s) or the return of all the documents within three days.

The Council do not bind themselves to accept the lowest or any tender. It is a condition of tendering that the Contractor shall at the date of his tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Children's Committee invite TENDERS for ERECTION of DETACHED HOUSE in traditional construction for Family Group Home, Begbrook-lane, Stapleton, Bristol.

Contractors willing to submit fixed price Tender apply to City Architect, Council House, Bristol, 1, by 28th AUGUST, enclosing two guineas deposit, payable Bristol Corporation, refundable on receipt of bona fide tender not subsequently withdrawn.

NEWCASTLE REGIONAL HOSPITAL BOARD.

NORTHGATE AND DISTRICT HOSPITAL, MORPETH.

The Board proposes to carry out ADAPTATIONS and EXTENSIONS to Fulbeck Grange to provide additional accommodation for nursing staff. The new extensions consist of a THREE-STOREY WING (approximate floor area 6,100 sq. ft.) of brickwork construction, with reinforced concrete floors and roof. The extensions to the existing building involve minor re-organisation of the two-storey structure (approximate floor area 4,800 sq. ft.).

Tender documents will be ready for issue to Contractors during September, 1959, and it is expected that it will be possible for building operations to commence in NOVEMBER, 1959.

The project has been planned by, and will be carried out under the direction of, the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.

Contractors wishing to tender for this work are asked to notify the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, not later than the 28th AUGUST, 1959. A limited number of Contractors may be selected and invited to tender, and the lowest or any tender will not necessarily be accepted.

COUNTY OF CORNWALL.

HOME FOR FRAIL AMBULANT PERSONS, CAMBORNE.

Applications are invited for permission to submit FIXED PRICE TENDERS for the following Sub-Contracts:

(a) CORK and P.V.C. FLOORING:
(b) SUSPENDED PRECAST CONCRETE FLOORS;
(c) JOINERY FITTINGS, SCREENS, DOORS and WINDOWS (SUPPLY ONLY);
(d) PASSENGER LIFT and MACHINERY;
(e) HEATING, HOT and COLD WATER SERVICES;
(f) ELECTRICAL INSTALLATIONS.

Applications should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 5th SEPTEMBER, 1959, from which a selected number of firms will be invited to tender. The Closing Date for receipt of tenders will be notified when the documents are despatched.

The lowest or any tender will not necessarily be accepted, nor will the County Council pay to Contractors any fees or expenses incurred in the preparation of tenders.

E. T. VERGER,
Clerk of the County Council.
County Hall,
Truro.
12th August, 1959.

BOROUGH OF SWINDON.

ERECTION OF TRADITIONAL DWELLINGS, PARK NEIGHBOURHOOD.

TENDERS are shortly to be invited for the ERECTION of 101 and 75 TRADITIONAL DWELLINGS in two separate contracts in the Park North Neighbourhood. Building Contractors who wish to be considered for inclusion in the list of tenderers for this work should forward their names to the Town Clerk, Civic Offices, Swindon, not later than the 28th AUGUST, 1959.

D. MURRAY JOHN,
Town Clerk.
Civic Offices,
Swindon.

BOROUGH OF WATFORD.

TENDERS are invited for the CONSTRUCTION of TWO BUNGALOWS and TWO HOUSES at Garston Park Estate, Watford.

Applications for documents, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender not subsequently withdrawn, must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m., on MONDAY, 24th AUGUST.

Contract documents will be forwarded as soon as possible after that date.

No tender will be considered unless upon the official form which must be sent to the undersigned in the envelope provided for the purpose, by 2 p.m., on MONDAY, 14th SEPTEMBER, 1959.

GORDON H. HALL,
Town Clerk.
Town Hall,
Watford.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT T.50/8.

TENANTS' MEETING ROOM.

BOTTETOURT-ROAD, WEOLEY CASTLE.

The House Building Committee invite FIRM PRICE TENDERS for the ERECTION of the above.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 26th AUGUST, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. L.B. 31), Council House, Birmingham, 1, NOT LATER THAN 12 noon on FRIDAY, the 25th SEPTEMBER, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. GREGG,
Town Clerk.
The Council House,
Birmingham, 1.

OLDHAM EDUCATION COMMITTEE.

STRINESDALE OPEN-AIR SCHOOL.

TENDERS are invited for the COMPLETE WORKS in CARRYING OUT ADDITIONS TO and ALTERATIONS OF THE PREMISES. Drawings may be inspected and bills of quantities, the form of tender and general conditions of contract may be obtained from Messrs. Cameron & Middleton, F.I.A.R.I.C.S., Chartered Quantity Surveyors, 21 Queen-street, Oldham, on payment of a deposit of 2 guineas (two pounds two shillings), which will be returned on receipt of a bona fide tender not subsequently withdrawn. Cheques, etc., to be crossed and made payable to the Oldham Corporation. Tenders will be considered only if they are submitted in the endorsed sealed envelope provided, not bearing any name or mark indicating the sender, and delivered to the Director of Education, Education Offices, not later than 10 a.m., on THURSDAY, the 10th SEPTEMBER, 1959. The Committee do not bind themselves to accept the lowest or any tender and the contract will be subject to the Council's Standing Orders which include a requirement for the provision of sureties.

WARWICKSHIRE COUNTY COUNCIL.

TO BUILDING CONTRACTORS.

Firms desirous of having their names added to an approved list of contractors from whom the Warwickshire County Council invite TENDERS for new building and other works should make application on or before MONDAY, the 7th SEPTEMBER, 1959, to G. R. Barnsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

The list is divided into sub-sections as follows:—

Contractors wishing to tender for works costing between:—

1. £10,000 and £50,000.
2. £50,000 and £100,000.
3. In excess of £100,000.

Contractors may apply for their name to be included in either or all sections and must forward particulars of contracts recently executed by them, giving the names and addresses of local authorities and/or Architects to whom reference can be made.

Tenders are considered only from contractors included in the official list which will be revised by the appropriate Committee after consideration of applications.

Contractors whose names are already included on the Council's approved list need not make application, as their names will be automatically included on the new list.

L. EDGAR STEPHENS,
Clerk of the Council.
Shire Hall,
Warwick.
June, 1959.

COUNTY OF CORNWALL.

Notice is hereby given of the intention to let separately the SUB-CONTRACTS for (a) STRUCTURAL STEELWORK, and (b) ALUMINIUM WINDOWS and DOORS in connection with the ERECTION of a NEW COUNTY SECONDARY SCHOOL at Bodmin and at Penryn.

Applications are invited for permission to tender for these Sub-Contracts and should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 5th SEPTEMBER, 1959, from which a selected number of firms will be invited to tender. The closing date for receipt of tenders will be notified when the documents are despatchd.

The lowest or any tender will not necessarily be accepted nor will the County Council pay to Contractors any fees or expenses incurred in the preparation of tenders.

E. T. VERGER,
Clerk of the County Council.
County Hall,
Truro.
12th August, 1959.

BOROUGH OF ROMFORD.

PRECAST CONCRETE BUILDING.

TENDERS are invited for the SUPPLY and ERECTION of a PRECAST CONCRETE BUILDING at St. Neots Adventure Playground, Harold Hill, Romford, measuring about 32 ft. x 17 ft. 6 in., together with internal partitions, drainage and plumbing works.

Tender documents may be obtained upon application from the Borough Engineer and Surveyor, Town Hall, Romford, enclosing a CHEQUE value £2 2s., which will be returned upon receipt of a bona fide tender.

The closing date for the receipt of tenders will be 7th SEPTEMBER.

JOHN E. SYMONS,
Town Clerk.

NEWCASTLE REGIONAL HOSPITAL BOARD.

RICHARD MURRAY HOSPITAL, BLACKHILL.

The Board proposes to EXTEND the ANTE-NATAL CLINIC at the above Hospital, involving the CONSTRUCTION of NEW SINGLE-STOREY ACCOMMODATION (approximate floor area 2,100 sq. ft.) and the ALTERATION and INTERNAL RE-ORGANISATION of the EXISTING STRUCTURE (approximate floor area 725 sq. ft.).

Tender documents will be ready for issue to Contractors during AUGUST, 1959, and it is expected that it will be possible for building operations to commence in OCTOBER, 1959.

The project has been planned and will be carried out under the direction of Messrs. Fennell & Baddiley, Chartered Architects, Bridge End Chambers, Chester-le-Street.

Contractors wishing to tender for this work are asked to notify the Secretary of the Board, Benfield-road, Newcastle-upon-Tyne, 6, by not later than the 28th AUGUST, 1959. A limited number of Contractors may be selected and invited to tender, and the lowest or any tender will not necessarily be accepted.

BOROUGH OF WIMBLEDON.

REPAIR AND REPOINTING OF WALLS.

TENDERS are invited for the REPAIR and REPOINTING of certain OLD BOUNDARY and OLD INTERNAL WALLS at Cannizaro Park, Wimbledon, and Randalls Park Estate, Leatherhead. Form of Tender and Specification of Works can be obtained from the Open Spaces Superintendent, Cemetery Office, Gap-road, Wimbledon, on receipt of deposit of £1 which will be refunded on receipt of bona fide tender or return of documents. Tenders to be received by 7th SEPTEMBER, 1959.

BOROUGH OF SLOUGH.

TENDERS are invited for the ERECTION of 4 HOUSES at Wood-lane, Cippenham.

Contractors wishing to tender should apply to Borough Engineer, Town Hall, Slough, Bucks, by noon, 25th AUGUST, 1959 for Forms of Tender, Bills of Quantities, and closing date for tendering. Applications must be accompanied by a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide tender and the return of contract documents. The Council do not bind themselves to accept the lowest or any tender.

COUNTY BOROUGH OF READING.

TO PLUMBING AND HEATING ENGINEERS.

FIRM PRICE TENDERS are invited for the REMOVAL of EXISTING INJECTOR HOT WATER SYSTEMS, and to SUPPLY and FIX approximately 199 GAS WATER HEATERS at Whitley Estate. General Conditions may be inspected and tender form and specification obtained from the Housing Manager, Town Hall, Reading. Tenders to the Town Clerk, by Noon 11th SEPTEMBER, 1959. No tender considered unless enclosed in the endorsed envelope provided bearing no indication of sender. The Corporation do not bind themselves to accept any tender.

BOROUGH OF EALING.

TOWN HALL STONEWORK REPAIRS.

TENDERS are invited from Contractors with considerable experience of stonework repair and restoration, for repairs to the stonework to the main elevation of the Town Hall.

Full particulars and tender forms are obtainable, on payment of a deposit of £5 0s. 0d. (returnable on receipt of a bona fide tender) from the Borough Surveyor, Town Hall, Ealing, W.5.

Tenders to be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than 26th SEPTEMBER, 1959.

E. J. COPE-BROWN,
Town Clerk.

COUNTY BOROUGH OF BOURNEMOUTH.

TO BUILDING CONTRACTORS.

TENDERS are invited on a FIXED PRICE BASIS for the ERECTION of a SOCIAL HALL AND LIBRARY at Cunningham-crescent, Kinson Estate, Bournemouth. Prefabricated timber structure with ancillary building in brick.

Bills of Quantities and Tender Forms obtainable from and Conditions of Contract and Drawings inspected at the Borough Architect's office (Room 106), Town Hall, Bournemouth, on payment of a deposit of £2 2s. 0d. refundable on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m. 15th SEPTEMBER, 1959.

A. LINSDAY CLEGG,
Town Clerk.

CHESTER - LE - STREET RURAL DISTRICT COUNCIL.

TENDERS FOR BUILDING MATERIALS, ETC.

14 AGED PERSONS' BUNGALOWS AT EIGHTON BANKS.

1. TENDERS are invited for the following Sub-Contract work for the above scheme:—
(a) TILING.
(b) PLUMBING.
(c) PLASTERING.
(d) PAINTING.

2. TENDERS are also invited for the supply of the undermentioned items:—
WOODEN CASEMENT WINDOWS, CARCASSING AND FINISHING TIMBER, MANUFACTURED JOINERY, HARDWARE, PRE-CAST CONCRETE, GENERAL BUILDING MATERIALS, also GLAZING and FLAT ROOF WORK.

Details and specifications of the above items and Bills of Quantities for the sub-contract work may be obtained from the Council's Architect, Mr. F. Bowman, A.R.I.B.A., Estate Office, Durham-road, Birtley.

Sealed tenders in plain envelopes must be posted so as to reach my office, Union Offices, Chester-le-Street, not later than TUESDAY, 1st SEPTEMBER, 1959, endorsed "Tender for . . ." and addressed to the undersigned.

The Council do not bind themselves to accept the lowest or any tender.

J. SANDERS,
Clerk of the Council.

Union Offices,
Chester-le-Street,
Co. Durham.
5th August, 1959.

BOROUGH OF HESTON AND ISLEWORTH.

CRANFORD-LANE (NORTH) HOUSING ESTATE.

TENDERS are invited for the ERECTION OF 36 FLATS, 96 HOUSES AND 65 GARAGES. Firms wishing to tender should make application to the Borough Surveyor, 88 Lampton-road, Hounslow, with a deposit of £2 2s. 0d. (two guineas) which will be refunded on receipt of a bona fide tender not subsequently withdrawn.

The Form of Tender and Bills of Quantities will be forwarded on or about 21st AUGUST, 1959.

Tenders must be sealed in the envelope to be provided, and received by the undersigned not later than noon on 18th SEPTEMBER, 1959.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow, Middlesex.

NOTICE TO PLUMBING FIRMS.

IRLAM URBAN DISTRICT COUNCIL.

TENDERS FOR INSTALLATION OF BATHS AND WASHBASINS IN EXISTING HOUSES.

The Council invite TENDERS from recognised plumbing firms for the removal of Baths, Washbasins and Piping in existing houses and replacement with new bathroom equipment.

The work will involve approximately 1,300 houses divided into separate contracts of 50 and firms may offer to undertake the work in one or more contracts.

Contract documents, including a Form of Tender, may be obtained from the Engineer and Surveyor, Council Offices, Irlam, upon receipt of a deposit of one pound, which will be returned upon receipt of a bona fide tender not later than 10 a.m. on MONDAY, 5th OCTOBER, 1959.

FRANK ROBERTS,
Clerk of the Council.

BOROUGH OF CHATHAM.

ERECTION OF GARAGES AND STORES.

BROOK DEPOT, CHATHAM.

TENDERS are invited for the ERECTION of a TWO-STOREYED BUILDING comprising GARAGES, STORES, GRIT STORES and REINFORCED CONCRETE GRIT HOPPERS.

Contractors are given the opportunity of submitting either fixed price tenders or tenders including cost variation clauses for labour and materials.

Tender documents together with the Form of Tender may be obtained on application to Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham, on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona fide tender, or the return of all the issued documents.

Tenders, in a sealed envelope, must be delivered to the undersigned not later than 12 noon on MONDAY, 21st SEPTEMBER, 1959.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.
12th August, 1959.

COUNTY BOROUGH OF GREAT YARMOUTH.

8 AGED PERSONS' DWELLINGS AND COMMUNAL UNIT, ADDISON-ROAD, GORLESTON.

FIXED PRICE TENDERS are invited for the ELECTRICAL ENGINEERING SERVICES (Electric lighting, power and floor warming installation) in the above.

Forms of Tender, Specification and Drawings may be obtained from the Borough Engineer's office, where conditions of contract may be inspected, upon payment of £2 2s. 0d. deposit returnable upon receipt of a bona fide tender not subsequently withdrawn.

Tenders in the envelope provided must reach me not later than first post FRIDAY, 4th SEPTEMBER, 1959. The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.
10th August, 1959.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO invite FIXED PRICE TENDERS for the ERECTION of a PAVILION at Front Lawn Recreation Ground, Leigh Park, Havant.

Form of Tender, Conditions of Contract, Specifications and Drawings may be obtained from the Engineer and Surveyor, 1 Park-road North, Havant.

No tender will be received except in a plain sealed envelope which shall bear the words "Tender: Pavilion, Leigh Park Recreation Ground," but shall not bear any name or mark indicating the sender.

Tenders must be delivered not later than 12 noon on SATURDAY, 5th SEPTEMBER, 1959, to the Clerk of the Council, Town Hall, Havant.

The Council do not bind themselves to accept the lowest or any tender.

CITY OF NEW SARUM.

NEW COACH STATION, CASTLE-STREET, SALISBURY.

TENDERS are invited for the CONSTRUCTION of a COACH STATION and all ancillary works on a site adjoining the Swimming Bath Car Park at the rear of Castle-street, Salisbury.

Tenders are to be on a "Fixed Price" basis and on Bills of Quantities which will be available on SATURDAY, 29th AUGUST, 1959. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer, The Council House, Salisbury.

Tenders in plain sealed envelopes must be delivered to the undersigned not later than noon on FRIDAY, 25th SEPTEMBER, 1959.

GEO. RICHARDSON,
Town Clerk.

The Council House,
Bourne Hill,
Salisbury.

BOROUGH OF CHELMSFORD.

ERECTION OF PUBLIC CONVENIENCES AT MELBOURNE-AVENUE, CHELMSFORD, ESSEX.

FIXED PRICE TENDERS are invited for the ERECTION of PUBLIC CONVENIENCES at Melbourne-avenue, Chelmsford.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer on or after the 24th AUGUST, 1959, on payment of a deposit of £2 2s. 0d. The deposit will be returned on receipt of a bona fide tender, not subsequently withdrawn, together with the return of all documents supplied. Cheques should be made payable to Chelmsford Corporation.

Drawings of the public conveniences will be available for inspection at the Municipal Offices, Coval-lane, from the 24th AUGUST, 1959.

Tenders are to be returned to the undersigned, in the envelopes provided, by noon on the 24th SEPTEMBER, 1959. Bills of Quantities are to be returned to the Borough Engineer by noon on the same day. The Council do not bind themselves to accept the lowest or any tender.

B. A. FRANCIS,
Town Clerk.

CITY OF HEREFORD.

BOUNDARY WALL, CROSSFIELDS, HEREFORD.

TENDERS are invited for the ERECTION of BRICK FRONT BOUNDARY WALLS at Crossfields, Hereford.

Plan, conditions of contract and specification may be obtained from Norman Roberts, A.R.I.B.A., Architect (Housing), Town Hall, Hereford, on receipt of a deposit of £1 1s. 0d. returnable following submission of a bona fide tender and return of all documents.

Tenders in a sealed envelope endorsed "Walls—Crossfields" should be posted to reach the undersigned not later than 12 noon on MONDAY, the 31st AUGUST, 1959.

The lowest or any tender will not necessarily be accepted.

T. B. FELTHAM,
Town Clerk.

Town Hall,
Hereford.

PROPOSED EXTENSIONS TO THE HOME FOR AGED PEOPLE, ST. BRIDGETS, BEXHILL.

THE EAST SUSSEX COUNTY COUNCIL propose to invite TENDERS for the above.

Contractors wishing to tender should apply before the 1st SEPTEMBER, 1959, to the County Architect, County Hall, Lewes.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

CIVIC CENTRE.
15-STOREY OFFICE BLOCK.
Contract No. 1.

TENDERS.

Persons desiring to TENDER for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than WEDNESDAY, 2nd SEPTEMBER, 1959, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

Contract No. 1 comprises excavation, foundation and basement work and a 15-storey reinforced concrete frame. The floor area in the building is approximately 135,000 square feet and the cube approximately 1½ million cubic feet.

Only firms with wide experience in the erection of multi-storey reinforced concrete frame structures should apply.

From such applications a selected list of tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available at the middle of SEPTEMBER, 1959. The deposit of £1 will be refunded on receipt of a bona fide tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION of TWO HOUSES on the site of the County Secondary School at Barlby, near Selby.

Applications for the Bills of Quantities should be accompanied by a deposit of £2. Cheques should be made payable to the County Treasurer.

No tender will be considered unless received by the undersigned, in a plain sealed envelope supplied by the Council bearing no name or mark indicating the sender, not later than 4 p.m., on TUESDAY, 15th SEPTEMBER, 1959. Envelopes should be endorsed "Erection of Houses—Barlby."

THOMAS STEPHENSON,
Clerk of the Council.

RUTLAND COUNTY COUNCIL.

EDUCATION COMMITTEE.

NEW CHURCH OF ENGLAND PRIMARY SCHOOL AT GREAT CASTERTON.

TENDERS are invited for a NEW PRIMARY SCHOOL for 400 children at Great Casterton in the County of Rutland.

Bills of Quantities and Forms of Tender can be obtained at the office of the County Architect, County Offices, Oakham, where drawings can also be inspected, on or after the 18th AUGUST, 1959, on payment of two guineas deposit which will be returned on receipt of a bona fide tender.

Tenders which should be in a plain sealed envelope marked "Tender—Great Casterton Church of England Primary School" should be returned to the undersigned not later than 10 a.m. on FRIDAY, 18th SEPTEMBER, 1959.

A. BOND,
Clerk of the County Council.

County Offices,
Oakham,
Rutland.

BOROUGH OF CHORLEY.

TOOTELL-STREET AND JACKSON-STREET SITES.
12 FLATS, TOOTELL-STREET.
8 FLATS, JACKSON-STREET.

FIXED-PRICE TENDER.

The Council invite TENDERS for the ERECTION of the above dwellings.

Drawings may be inspected, and Bills of Quantities and Forms of Tender may be obtained at the Borough Engineer's Office on payment of a deposit of £3 3s., returnable after receipt of a bona fide tender.

Tenders in plain sealed envelopes endorsed "Flats Tootell-street and Jackson-street" should be delivered to the undersigned not later than 12 noon on MONDAY, the 7th SEPTEMBER.

ROBERT POTTER,
Town Clerk.

Town Hall,
Chorley.
7th August, 1959.

BOROUGH OF BASINGSTOKE.

SOUTH HAM ESTATE, BASINGSTOKE.

TENDERS are invited for the ERECTION of FORTY-SIX DWELLINGS comprising THREE-STOREY FLATS, HOUSES and BUNGALOWS; ONE SHOP; and FORTY-NINE GARAGES; to the south of St. Peter's-road, Basingstoke.

Forms of Tender, Bills of Quantities, and General Conditions of Contract, may be obtained from the Borough Architect, Eric Almond, Dipl. Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £2 2s., which will be returned on receipt of a bona fide tender.

Tenders are to be returned to the undersigned by 12 noon on MONDAY, 14th SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest, or any, tender.

L. WOMERSLEY,
Town Clerk.

COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

PERMANENT HOUSING PROGRAMME.

SCHEME No. 41.

TENDERS are invited for the following:
(a) ROOF TILING;
(b) PLASTERING;
to 28 DWELLINGS at Marsh-lane Redevelopment Area, Marsh-lane, Bootle.

Bills of Quantities and Forms of Tender may be obtained from the Borough Surveyor, Town Hall, Bootle 20, Lancs.

HAROLD PARTINGTON,
Town Clerk.

MONTGOMERYSHIRE EDUCATION AUTHORITY.

NEW COUNTY LIBRARY AT NEWTOWN.

TO CONTRACTORS.

TENDERS are invited for the ERECTION of the first phase of the above library.

Bills of Quantities and plans prepared by the County Architect can be obtained from the undersigned to whom sealed tenders in the envelopes provided should be sent not later than MONDAY, 7th SEPTEMBER, 1959. A deposit of £2 2s. 0d. is required but this will be returned upon receipt of a bona fide tender.

My Committee does not bind itself to accept the lowest or any tender.

J. A. DAVIES,
Director of Education.

County Offices,
Newtown.
11th August, 1959.

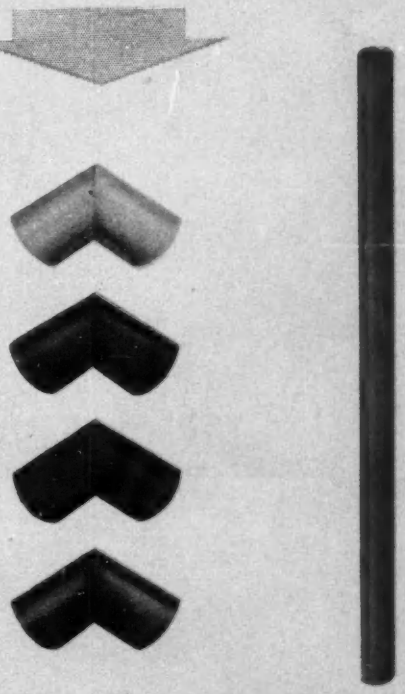
G. H. OSBORN BUILDING PRODUCTS LIMITED

present

OSMA

PLASTIC RAINWATER GOODS IN A RANGE OF DISTINCTIVE COLOURS

The right PLASTIC in the right PLACE



GLASS FIBRE REINFORCED POLYESTER

4½" H.R. GUTTERS IN 6' 0" LENGTHS—

AND HIGH IMPACT POLYVINYL CHLORIDE

2¾" DIA. RAINWATER PIPES IN 6' 0" & 12' 0" LENGTHS

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DOLLIS PARK, LONDON, N.3. FINCHLEY 7801

GUTTERS, RAINWATER PIPES & FITTINGS NOW OBTAINABLE FROM ALL LEADING BUILDERS MERCHANTS

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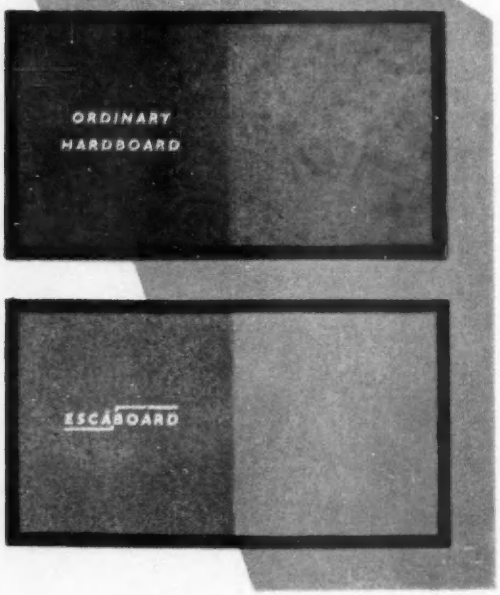
FOR FASTER, EASIER DECORATING WITH BRUSH OR SPRAY

A great step forward in manufacturing technique perfected in Svenska Cellulosa Aktiebolaget's Laboratories has produced ESCABOARD the hardboard that guarantees a unique surface requiring *NO* filling, priming or undercoat.

- **No sealing or priming**
- **30% less paint**
- **50% less time**

TRY THIS TEST FOR YOURSELF!
Take a strip of Escaboard and a strip of ordinary hardboard. Give each a coat of paint, or any standard finish and see the astounding difference!



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SUNDSVALL, SWEDEN

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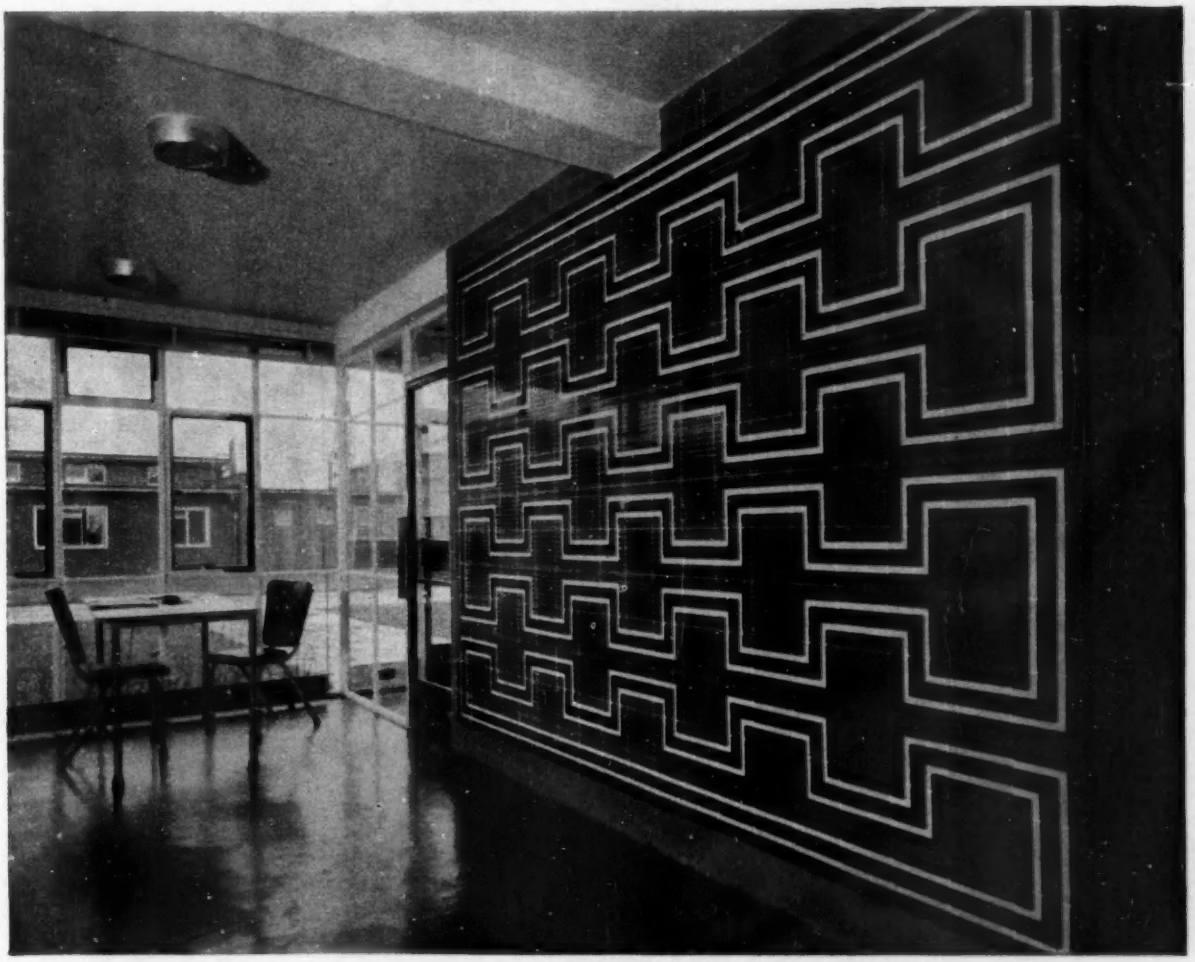
MELBOURNE HOUSE, ALDWYCH, LONDON, W.C.2

BRITISH OVERSEAS AIRWAYS CORPORATION

choose Ceramic Tiles

Ceramic Glazed Decorated Tiles, which may be adapted to form many designs are the ideal medium—hygienic, permanent, beautiful—for this striking key pattern Wall Mural at the B.O.A.C. Recruitment Centre, London Airport.



Architects: Properties & Services Branch, B.O.A.C., E.F.H. Foster, A.R.I.B.A., Architect in charge.
Main Contractors: William Willett Limited, Sloane Square, S.W. 1.
Tiling by: W.B. Simpson & Sons Limited, 374 Wandsworth Road, S.W. 8.

Visit the Association's display of ceramic tiles at the Building Centre, Store St., Tottenham Court Rd., W.C.1

British Ceramic TILES

Glazed & Floor Tile Manufacturers' Association · Federation House · Stoke-on-Trent

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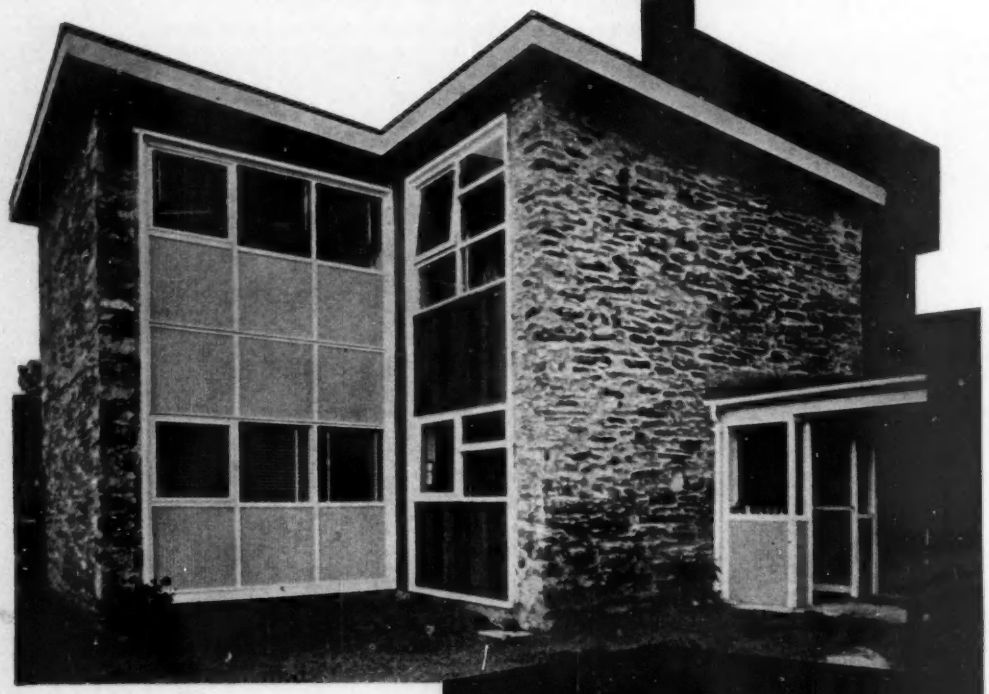
In town or country



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Having used "POILITE" Asbestos-Cement Flat Building Sheets Textured on a number of jobs, North Wales architect, K. W. Favell, confidently specified the fluted pattern, in "TURNALL" "*COLOUR-GLAZE*" Finish, for his own home at Ruthin.

For a new showroom in Paradise Street Birmingham, Neville Cooley, architect to the West Midlands Gas Board, also used fluted sheets in the effective facia shown at the right—an entirely different site and location where "POILITE" Fluted Sheets, painted in situ, are equally suitable as a decorative feature.

Write for latest literature.

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TURNERS ASBESTOS CEMENT CO. LTD.

A MEMBER OF THE **TURNER & NEWALL** ORGANISATION

TRAFFORD PARK MANCHESTER 17

PTS4

THE RURAL DISTRICT COUNCIL OF GODSTONE.

16 FLATS, HIGH-STREET, DORMANSLAND.

TENDERS are invited for the ERECTION of 16 FLATS in TWO BLOCKS at High-street, Dormansland. The blocks are in two storeys and the flats are single-bedroom type.

Bills of Quantities, Conditions of Contract, and Form of Tender may be obtained on application to the Council's Engineer and Surveyor at the Council Offices, Oxted, Surrey, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona fide tender and the return of all documents supplied.

Drawings may be inspected at the office of the Engineer and Surveyor during the ordinary office hours.

Sealed tenders, enclosed in a plain envelope endorsed "Tender for 16 Flats, Dormansland" and addressed to the Clerk of the Council, Council Offices, Oxted, must be delivered not later than noon on WEDNESDAY, 23rd SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest or any tender.

M. HAWORTH.
Clerk of the Council

Council Offices,
Oxted,
Surrey.
10th August, 1959.

COUNTY COUNCIL OF ESSEX.

(1) Romford Squirrels Heath County Primary School: TWO ADDITIONAL CLASSROOMS AND CONVERSIONS.

(2) Rainham County Primary School: ADAPTATIONS AND IMPROVEMENTS.

(3) Little Clacton County Primary School: ADDITIONAL CLASSROOM, ETC.

(4) Ongar County Secondary School: SCIENCE LABORATORY, ETC.

(5) South Benfleet County Infants' School: ASSEMBLY HALL.

(6) SHENFIELD BRANCH LIBRARY.

Contractors wishing to submit FIRM PRICE TENDERS for the above should forward their names, from which panels will be chosen and provided with tender documents.

(1) Two additional classrooms in traditional construction and conversions to form new kitchen and servery, estimated cost £8,700.

(2) Adaptations, improvements to cloakrooms and toilet facilities, and heating to existing classrooms, estimated cost £10,000.

(3) Additional classrooms, staff room, and cloakroom in traditional construction estimated cost £5,000.

(4) Science laboratory and preparation room in traditional construction, estimated cost £5,000.

(5) Assembly hall in traditional construction with light steel frame, estimated cost £8,600.

(6) Branch library in traditional construction with brick walls and timber roof, estimated cost £22,000.

NOTE.—Contracts (1-5) to be carried out by Private Architects as follows:—

(1) W. J. Lewis & Sons, Cranbrook-road, Ilford.
(2) J. C. Swallow, Crescent-drive, Brentwood.
(3) G. H. B. & Roy Gould, Station-road, Clacton.
(4) Bird & Watts, Clays-lane, Loughton.
(5) F. G. Frizzell, Portland-place, W.1.

Separate applications for each contract to reach the undersigned not later than 29th August, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

WOKING U. D. C.

PRE-WAR COUNCIL HOUSES.
INSTALLATION OF
HOT AND COLD WATER SYSTEMS.

CONTRACT No. 6.
HORSELL, KNAPHILL AND WOKING AREAS.

TENDERS invited for above, comprising 27 INSTALLATIONS and 100 BASINS. Documents from Engineer and Surveyor, on receipt of two guineas deposit, refundable only on receipt of bona fide tender not subsequently withdrawn. Tenders to Clerk of the Council by 5 p.m., FRIDAY, 9th OCTOBER, 1959.

COUNTY BOROUGH OF BRIGHTON.

FIXED-PRICE TENDERS are invited for:

ERECTION OF A 5-CLASS PRIMARY SCHOOL at Westdene, Brighton.

Bills of Quantities and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26-30 Kings-road, Brighton, on or after MONDAY, 24th AUGUST, 1959, on receipt of a returnable deposit of £2 2s.

Drawings may be inspected upon application at the Borough Surveyor's office.

Tenders are to be delivered to the Town Clerk in the envelope provided, not bearing any name or mark indicating the sender, by noon, on TUESDAY, 15th SEPTEMBER, 1959.

W. O. DODD.
Town Clerk.

BOROUGH OF BEDFORD.

ERECTION OF SPORTS PAVILION.

Applications for TENDERS are invited for the ERECTION OF A SPORTS PAVILION at Newnham Sports Centre, Barker's-lane, Bedford.

The tender period will be a minimum of three weeks.

Contractors will be selected from the list of applicants as a good standard of workmanship is essential for this particular project.

Application for consideration should be made to F. W. Dawkes, Esq., Borough Engineer and Surveyor, Newnham House, Horne-lane, Bedford.

No deposit is required and applications should be received not later than FRIDAY, 28th AUGUST, 1959.

G. F. SIMMONDS.
Town Clerk.

Town Hall,
Bedford.

COUNTY BOROUGH OF BLACKBURN.

CHAIN LINK FENCING FOR HOUSING ESTATES.

Enquiries invited, by 2nd SEPTEMBER, from firms wishing to TENDER for the SUPPLY AND ERECTION of a large quantity of CHAIN LINK FENCING for Housing Estates.

Specifications and quantities from the Borough Engineer, Town Hall, Blackburn, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona fide tender.

FRANK SQUIRES.
Town Clerk.

COUNTY COUNCIL OF ESSEX.

(1) AMBULANCE STATION, Frinton-on-Sea.

(2) GREAT WALTHAM PRIMARY SCHOOL, PHASE 1.

Contractors wishing to submit FIRM-PRICE TENDERS for the ERECTION of the above should forward their names, from which panels will be chosen and provided with tender documents.

(1) ONE BAY AMBULANCE STATION, single storey in traditional construction, estimated cost £2,800.

(2) TWO ADDITIONAL CLASSROOMS AND STORES in traditional construction and adaptations, estimated cost £9,500.

Separate applications for each contract to reach the undersigned not later than 29th AUGUST, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

EAST SUFFOLK STANDING JOINT COMMITTEE.

ERECTION OF THREE POLICE HOUSES AT LOWESTOFT.

The Committee propose to invite FIRM-PRICE TENDERS from selected builders, for the ERECTION at Lowestoft of THREE POLICE HOUSES with outbuildings, under a single contract.

Building Contractors wishing to be considered should submit their names to Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, County Hall, Ipswich, before the 1st SEPTEMBER, 1959. From the names submitted, a number of builders will be selected and these will be furnished with Specifications and Drawings on or about the 4th SEPTEMBER, 1959, for tenders by the 25th SEPTEMBER, 1959; builders not selected will be notified at the same time.

COUNTY BOROUGH OF DUDLEY.

ST. GILES-STREET REDEVELOPMENT, NETHERTON.

Applications are invited from Building Contractors having the necessary plan, personnel and organisation to be included in a list of contractors from whom TENDERS will be invited for the above work. The contract is on a fixed-price basis, comprising the ERECTION of 60 FLATS in SIX 3-STOREY BLOCKS, THREE OLD PERSON'S COTTAGES and 12 GARAGES.

Applications to tender must be submitted to the Borough Architect, 5 Ednam-road, Dudley, not later than WEDNESDAY, 2nd SEPTEMBER, 1959, and must be accompanied by a deposit of £2 2s., which will be returned upon receipt of a bona fide tender not subsequently withdrawn. Cheques to be made payable to Dudley Corporation. Bills of Quantities and forms of tender will be sent out shortly after the above closing date.

P. D. WADSWORTH.
Town Clerk.

The Council House,
Dudley.
12th August, 1959.

BOROUGH OF SWINTON AND PENDLEBURY.

TENDERS invited from suitable contractors for the ERECTION of 4 BLOCKS OF 4 FLATS. Details from the Borough Engineer, Town Hall, Swinton, Lancs. Closing date for receipt of tenders 7th SEPTEMBER.

COUNTY BOROUGH OF EASTBOURNE.

TO BUILDING CONTRACTORS.

No. 1, OLD ORCHARD-ROAD.

TENDERS are invited for CONVERTING the above house into a GROUND FLOOR FLAT AND MAISONETTE ON THE TWO UPPER FLOORS.

Applications for tendering documents must be delivered to the Borough Surveyor, 2 and 4 Saffrons-road, Eastbourne, on or before 24th AUGUST, 1959, and must be accompanied by a deposit cheque for £2 2s. 0d. payable to the Eastbourne Corporation, which will be returned on receipt of a bona fide tender.

Tendering documents will be issued on 3rd SEPTEMBER, 1959. No tender will be considered unless it is sent in a plain sealed envelope addressed to me, bearing the words "Tender for No. 1, Old Orchard-road," but shall not bear any name or mark indicating the sender. Tenders must be delivered not later than 12 noon on 24th SEPTEMBER, 1959.

The lowest or any tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
13th August, 1959.

LEYLAND URBAN DISTRICT COUNCIL.

HOUSING CONTRACT.

The Council invite TENDERS from Registered Contractors for the following housing contract which is to be tendered for on FIXED PRICE BASIS.

Contract No. 29: 20 HOUSES, Lower House Estate, Leyland.

Bills of Quantities and Forms of Tender together with Conditions of Contract, may be obtained from and plans inspected at the office of Mr. F. D. Howe, M.I.Mun.E., Engineer and Surveyor, Council Offices, Leyland, on application on or after WEDNESDAY, 19th AUGUST, 1959, this application to be accompanied by a deposit of £2 2s. 0d. (cheques to be made payable to the Council) which will be returned on receipt of a bona fide tender and the return of all documents.

Tenders on the forms provided, in a plain sealed envelope appropriately endorsed "20 Houses, Lower House Estate," but bearing no mark or indication of the sender, must reach the undersigned not later than noon, TUESDAY, 15th SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest or any tender.

W. C. F. GODSELL,
Clerk of the Council.

Council Offices,
Leyland, Lancs.
August, 1959.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED POLICE HOUSES AND OTHER WORKS AT CHERTSEY TRAFFIC CENTRE.

The work consists of the ERECTION, IN PERMANENT CONSTRUCTION, OF FOUR PAIRS OF SEMI-DETACHED POLICE HOUSES and the CONSTRUCTION OF AN ACCESS ROAD.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 28th AUGUST, 1959.

CITY OF YORK.

TENDERS are to be invited for the ERECTION of TWO-FORM ENTRY INSTALMENT OF THREE-FORM ENTRY Low Fields County Secondary School, Acomb, York.

Bills of Quantities will be available on 11th September, 1959, and contractors who are desirous of submitting tenders should forward their names to the undersigned together with a deposit of £3 (cheques to be made payable to York Corporation).

Drawings may be inspected at the address shown below to where completed forms of tender are to be delivered not later than first post on 6th OCTOBER, 1959.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8 St. Leonard's-place,
York.
August, 1959.

BOROUGH OF MITCHAM.

PUBLIC CONVENIENCE—
LEWIS-ROAD RECREATION GROUND.

TENDERS are invited for the CONSTRUCTION of a PUBLIC CONVENIENCE at the above recreation ground.

Form of tender, specification and a view of the drawings may be obtained from the Borough Engineer and Surveyor, Town Hall, Mitcham, Surrey.

Tenders must be delivered to the undersigned, in the envelope provided, not later than 12 noon on SATURDAY, 5th SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest or any tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham, Surrey.

URBAN DISTRICT COUNCIL OF CUCKFIELD.

PROVISION OF DRESSING ROOMS, QUEENS HALL, CUCKFIELD.

The Council invite TENDERS for the CONSTRUCTION OF TWO SMALL EXTENSIONS totalling approximately 450 sq. ft. Plans and Specifications may be obtained from the Council's Surveyor on payment of a fee of £1 1s. 0d. returnable on submission of a bona fide tender and/or the return of the documents.

Tenders in the envelope provided, bearing no name or mark of the sender must be delivered to the Clerk of the Council at the address below not later than noon on FRIDAY, 4th SEPTEMBER, 1959.

The Council do not bind themselves to accept the lowest or any tender and tenders submitted otherwise than as directed will be rejected.

J. A. EVANS,
Clerk of the Council.

Council Offices,
Oaklands,
Haywards Heath.
14th August, 1959.

SHEFFIELD REGIONAL HOSPITAL BOARD.

MOUNT VERNON HOSPITAL, BARNSLEY, YORKS.

NEW HOSPITAL TO ACCOMMODATE 90 CHRONIC SICK PATIENTS.

The Board proposes to invite TENDERS from selected Contractors for work, estimated to cost in the region of £240,000.

Building contractors wishing to tender should submit their names to Mr. E. F. Wilson, A.R.I.B.A., Fulwood House, Old Fulwood-road, Sheffield 10, within two weeks from the date of this advertisement.

From the names submitted a number will be selected to receive Bills of Quantities, etc. Contractors not selected will be notified at the same time.

BOGNOR REGIS URBAN DISTRICT COUNCIL.

BLOCK OF TEN MULTIPLE PREFABRICATED CONCRETE GARAGES.

ORCHARD-WAY
BOGNOR REGIS.

FIXED-PRICE CONTRACT

FIXED-PRICE TENDERS are invited for the SUPPLY and ERECTION of a BLOCK OF TEN MULTIPLE PREFABRICATED REINFORCED CONCRETE GARAGES. Copies of documents and forms of tender may be obtained from the Engineer and Surveyor, Town Hall, Bognor Regis.

Tenders must be returned to the undersigned not later than the first post on FRIDAY, the 4th SEPTEMBER, 1959.

R. W. J. HILL,
Clerk of the Council

Town Hall,
Bognor Regis.
14th August, 1959.

STAVELEY URBAN DISTRICT COUNCIL.

TENDER FOR 42 HOUSES.

The above-named Council invite TENDERS for the CONSTRUCTION OF 42 3-BEDROOM BRICK BUILT HOUSES on their Inkersall Green Estate, Staveley.

Form of tender and other particulars may be obtained from the Engineer and Surveyor, Council Offices, Lowgates, Staveley, near Chesterfield, on a deposit of £1 1s. 0d., which will be returnable on receipt of a bona fide tender not later than noon on FRIDAY the 11th SEPTEMBER, not subsequently withdrawn. The Council do not bind themselves to accept the lowest or any tender.

HAMILTON H. STANLEY,
Clerk of the Council.

14th August, 1959.

TAMWORTH RURAL DISTRICT COUNCIL.

NEW ADMINISTRATIVE CENTRE.

TENDERS will shortly be invited for the ERECTION of NEW COUNCIL OFFICES AND ADMINISTRATIVE CENTRE, together with a GARAGE for seven vehicles and ALTERATIONS to the PUBLIC MORTUARY AND OTHER BUILDINGS at the Council's Depot, Tamworth-road, Kettlebrook, Wilnecote, near Tamworth, Staffs.

Contractors wishing to tender should apply to the Architect, Ernest W. Haysom, F.R.I.B.A., Curtis House, Poplar-road, Solihull, Warwickshire, and should enclose a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender. Plans are available for inspection at the Architect's Office, and also at the office of the Engineer and Surveyor, Mr. A. Shaw, M.I.Mun.E., 92 Lichfield-street, Tamworth, Staffs.

The Council do not bind themselves to accept the lowest or any tender.

S. W. DEWES,
Clerk to the Council.

Council Offices,
92 Lichfield-street,
Tamworth,
Staffs.

NORFOLK EDUCATION COMMITTEE.

THE COUNTY TECHNICAL COLLEGE, KING'S LYNN.

Builders wishing to TENDER for the ERECTION of an AGRICULTURAL IMPLEMENT SHED (1,000 ft.) at the above-named College should forward their names to the undersigned by WEDNESDAY, 2nd SEPTEMBER, 1959.

F. LINCOLN RALPHS,
Chief Education Officer.
County Education Offices,
Stracey-road,
Norwich.

TO BUILDING CONTRACTORS.

Housing Committee invite TENDERS for ERECTION of 29 TRADITIONAL FLATS FOR OLD PEOPLE, Geoffenton-drive, Oldbury Court, Bristol.

Contractors willing to submit fixed-price tenders, based on Bills of Quantities, apply to City Architect, Council House, Bristol, 1, by 1st SEPTEMBER, enclosing 2 guineas deposit, payable to Bristol Corporation, refundable on receipt of bona-fide tender not subsequently withdrawn.

AXMINSTER RURAL DISTRICT COUNCIL.

42 DWELLINGS.

Application for Bills of Quantities to Architect, Fredk. S. Kett, Trinity-square, Axminster, by 1st SEPTEMBER, 1959.

Sealed Tenders to Clerk, Oak House, Axminster, 26th SEPTEMBER, 1959.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS

FIRM-PRICE TENDERS are invited for the ERECTION OF GROUPS OF GARAGES totalling 103 on 71 SITES spread over six of the Corporation's housing estates. General conditions may be inspected and tender forms, plans showing the several sites and specifications may be obtained from the Borough Architect, Town Hall, Reading. Tenders can be submitted for the erection of ALL the garages on any or all of the estates, but not in respect of individual sites only. Tenders to be returned to Town Clerk, Town Hall, Reading, by noon on FRIDAY, 11th SEPTEMBER, 1959. No tender considered unless enclosed in the endorsed envelope provided bearing no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

CITY OF PLYMOUTH.

TENDERS are invited from Building Contractors for:—

1. The ERECTION of a SCIENCE AND ADMINISTRATION BLOCK at the Plymouth and Devonport Technical College, Tavistock-road, Plymouth.

2. The ERECTION of PUBLIC CONVENIENCES at Granby-way, Devonport.

Applications, accompanied by a deposit of £3 3s. 0d. for each scheme, made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 26th AUGUST, 1959, will be considered.

Deposits will be refunded on receipt of bona fide tenders and subsequently withdrawn.

PUBLIC APPOINTMENTS

BOROUGH OF NEWCASTLE-UNDER-LYME.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Special Grade (£785-£1,070 p.a.).

Applications are invited for the above post. The commencing salary will be fixed in accordance with qualifications and experience.

Applicants should have passed Parts 1 and 2 of the R.I.B.A. examination and have had at least five years' experience including theoretical training.

The provision of housing accommodation will apply in suitable cases.

Application forms and conditions of service are obtainable from the Borough Engineer and Surveyor, Lancaster Building, High-street, Newcastle, Staffs., and must be returned to him within ten days of the publication of this advertisement.

C. J. MORTON,
Town Clerk.

WOLVERHAMPTON HOSPITAL MANAGEMENT COMMITTEE.

TECHNICAL WORKS ASSISTANT Required for Engineering Department. Duties include preparation of working drawings, assisting in preparation of specifications and surveys under the direction of Superintendent Engineer and Building Supervisor. Applicants should possess experience in this type of work. Salary £525-£625 per annum. 38-hour week. Apply giving age, experience and names of two referees, to the Group Secretary, The Royal Hospital, Wolverhampton.

COUNTY COUNCIL OF ESSEX.

ASSISTANT QUANTITY SURVEYOR (WORKING-UP). A.P.T.D. Grade I. Commencing salary according to qualifications and experience but not exceeding £765.

Application form from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, returnable with copies of three testimonials by 4th SEPTEMBER, 1959.

Canvassing disqualifies.

NORTHAMPTONSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at A.P.T. II (£765-£880) or A.P.T. III (£880-£1,065) according to qualifications and experience. Good general experience in design and construction and the preparation of working drawings is essential and a knowledge of school work is desirable. Training at one of the recognised schools of architecture and previous service with a local authority would be an asset.

A weekly sum of 25s. by way of temporary additional salary is payable, subject to review quarterly, to a married officer unable to find a house locally.

Applications giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope endorsed "Staff," to the County Architect, County Hall, Northampton, by THURSDAY, 10th SEPTEMBER.

J. ALLAN TURNER,
Clerk of the County Council.
County Hall,
Northampton.

BOROUGH OF SOUTHGATE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment in the Department of the Borough Engineer and Surveyor:—

A.P.T. Special Grade, £785-£1,070 plus London Weighting.

The post is permanent and superannuated and the starting salary will be fixed in accordance with qualifications and experience. Applicants must be Associates of the Royal Institute of British Architects.

Forms of application may be obtained from the Borough Engineer and Surveyor and should be returned to the undersigned not later than 12 noon on MONDAY, 31st AUGUST, 1959.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13.
August, 1959.

HUNTINGDONSHIRE COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF A SENIOR ARCHITECTURAL ASSISTANT, GRADE A.P.T. IV.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. IV, £1,065-£1,220 per annum.

Candidates should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and have had considerable experience in the design of Schools, Police and other County Buildings.

Further details and application forms may be obtained from The County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by 4th SEPTEMBER, 1959.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

CITY OF SALFORD.

HOUSING DEPARTMENT.

PROPERTY AGENT,
HOUSING ACT, 1954.

Applications are invited from CRAFTSMEN or persons with considerable experience in connection with REPAIR AND MAINTENANCE OF HOUSE PROPERTY. Will be required to collect rents in addition to inspection for repairs. Salary: Miscellaneous V, £650-£714 per annum. The appointment is superannuable and subject to the passing of a medical examination. Applications, stating age, qualifications, experience, present and previous appointments, together with the names and addresses of three persons to whom reference can be made, should be forwarded to the Housing Manager, 36 Eccles Old-road, Salford, 6, not later than SATURDAY, the 29th AUGUST, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

CORBY DEVELOPMENT CORPORATION.

CLERK OF WORKS, ESTATES DEPARTMENT.

Applicants are invited for an appointment as a housing maintenance CLERK OF WORKS in the Estates Department. The salary will be within the New Towns Grade A.P.T. II (£765-£880 per annum) and subject to the usual deduction for Superannuation under the Local Government Superannuation Scheme. Housing will be available and removal expenses paid.

Applicants are expected to have a sound knowledge of all building trades and to be experienced in the inspection of properties. Applications stating age, qualifications, training and experience, present appointment and salary, and previous appointments, together with the names of two referees must reach the undersigned by AUGUST 31, 1959.

R. F. BROOKS GRUNDY, Esq.
General Manager.
Corby Development Corporation,
Spencer House,
Corby,
Northants.

CITY OF LEEDS.

WORKS DEPARTMENT.

Applications are invited for the appointment of:—

QUANTITY SURVEYOR, Grade A.P.T. II (£765 to £880 per annum).

Applicants must be thoroughly experienced in the preparation of Bills of Quantities, Estimates, Valuation of Works in Progress and Settlement of Final Accounts.

The appointment is subject to the provisions of the Local Government Superannuation Acts, and the successful applicant will be required to pass a medical examination.

Forms of application may be obtained from the Director of Works, Sweet-street, Leeds, 11, to whom they should be returned not later than MONDAY, 7th SEPTEMBER, 1959.

Canvassing in any form, either directly or indirectly, will be a disqualification.

ROBERT CRUTE,
Town Clerk.

BOROUGH OF BEXLEY.

ARCHITECTURAL APPOINTMENTS.

Applications are invited for the following posts in the Borough Engineer and Surveyor's Department.

(a) ARCHITECTURAL ASSISTANT.
(b) ARCHITECTURAL DRAUGHTSMAN.

The salary for each of these posts is within Grade A.P.T. I (£610-£765 per annum) plus London Weighting. Preference will be given to candidates with experience of housing and school projects.

Forms of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 7th SEPTEMBER, 1959.

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

MIDDLESEX COUNTY COUNCIL.

Required in County Architect's Department, initially at Westminster, QUANTITY SURVEYOR, A.P.T. III (£910-£1,095), to prepare detailed and approximate estimates for building works. R.I.C.S. or equal qualifications desirable. Established; pensionable; prescribed conditions. Applicatio forms (S.A. f'scap e.) from the County Architect, 3 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1, returnable immediately. (Quote Z.988B.)

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

Following a revision of the establishment of the Education and General Section applications are invited for the undermentioned vacancies on the permanent staff of the City Architect, Mr. J. L. Womersley, F.R.I.B.A., Dist. T.P., M.T.P.I. for work on an expanding and interesting programme comprising large and important civic buildings included in the re-building of large areas in the city centre: colleges, schools, libraries, art gallery, old people's and children's homes, bus garages, fire and police stations, health centres and clinics.

(a) GROUP LEADER ARCHITECTS. Grade A.P.T. V (Education and General) (£1,220-£1,375).

(b) SENIOR ASSISTANT ARCHITECTS. Grade A.P.T. IV (Education and General) (£1,065-£1,220).

(c) ASSISTANT ARCHITECTS. Grade S.C. (£785-£1,070).

Commencing salaries within the above grades according to qualifications and experience.

Applications stating post applied for, age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made, should reach me not later than THURSDAY, 3rd SEPTEMBER, 1959.

JOHN HEYS,
Town Clerk.

13th August, 1959.

LANCASHIRE COUNTY COUNCIL.

Applications are invited for appointment as CLERKS OF WORKS within the Salary Scale £850-£950 per annum, to take charge of groups of building contracts in various parts of the County Area. The appointments are temporary but carry subsistence and travelling allowances in accordance with the Scale, and previous Local Government Service is reckonable for Superannuation purposes. Car driver essential.

Application Forms obtainable from the County Architect, P.O. Box 26, County Hall, Preston, to be returned by the 1st SEPTEMBER, 1959, quoting Ref. A/TB.

Previous applicants should not re-apply.

WESTMINSTER CITY COUNCIL (Housing Dept.) requires MAINTENANCE CLERK OF WORKS.

£610 to £765 (plus London Weighting max. £30) per annum. Private Act Superannuation Scheme: contributions 2 per cent.: 44-hour week. Thorough experience of building trade and supervision of maintenance, repair and painting works. Applications detailing experience, qualifications, etc., with two copy testimonials, to Town Clerk, Westminster City Hall, Charing Cross-road, W.C.2, within 14 days of appearance of advertisement.

COUNTY BOROUGH OF GREAT YARMOUTH.

SCHOOLS ARCHITECT'S DEPARTMENT.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT.

Applications are invited to fill the vacancy for a JUNIOR ASSISTANT within A.P.T. grade II (£765-£880).

Candidates should have had experience in School construction.

Applications stating age, qualifications, experience, details of past and present appointments together with the names of two referees should reach the Schools Architect, 22 Euston-road, Great Yarmouth, by 1st SEPTEMBER, 1959.

D. G. FARROW,
Chief Education Officer.
22 Euston-road,
Great Yarmouth.

CITY OF COVENTRY

ARCHITECTURAL AND PLANNING DEPARTMENT

(Quantity Surveying Division)

Vacancies exist for QUANTITY SURVEYORS as follows:—

(a) QUANTITY SURVEYORS, "Special" Grade (£785—£1070)
(b) ASSISTANT QUANTITY SURVEYORS, APT. II (£765—£880)
(c) QUANTITY SURVEYING ASSISTANTS, APT. I (£610—£765)

with additional local award of £36 p.a. on salaries up to £795 in certain circumstances.

Appointments may be made, according to experience and qualification held, within the grade, and are permanent and pensionable, subject to satisfactory medical certificate. For posts (a) preference given to A.R.I.C.S. or other appropriate qualifications, for posts (b) minimum Intermediate R.I.C.S. with good experience, approaching Final standard or with part-pass in Final Examination, for posts (c) Intermediate R.I.C.S. or other appropriate examination with professional experience.

HOUSING ACCOMMODATION may be granted in approved circumstances, also interest-free loan to cover removal expenses.

An interesting programme of work is being undertaken for major City redevelopment projects, new schools and housing, including multi-storey flats, also smaller works of a varied nature, many involving new constructional techniques.

Further details and application form (stating post for which application is made) may be obtained from the City Architect and Planning Officer, Bull Yard, Coventry, to be returned by 4th September, 1959.

BRISTOL CORPORATION.

ARCHITECTS' COMMITTEE.

Applications invited for following permanent Staff appointments:—

(a) SENIOR ASSISTANT ARCHITECT. Grade A.P.T. IV (£1,065 x £55(1) x £50-£1,220 p.a.).

(b) SENIOR ASSISTANT ARCHITECT. Special Scale (£785 x £40(3) x £45 x £40(3)-£1,070 p.a.).

(c) ASSISTANT ARCHITECTS. Grade A.P.T. I (£610 x £30(4) x £35-£765).

(d) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. I (£610 x £30(4) x £35-£765).

Appointments will be appropriate to professional experience and qualifications. Applicants for (a) must be Associates of the R.I.B.A. and have had considerable experience in design, construction and contract administration, preferably with a large Local Authority.

Applicants for (b) must have passed Parts I and II of the R.I.B.A. Final Examination.

Applicants for (d) should have passed R.I.C.S. Intermediate Examination or equivalent and have had experience in abstracting and billing and general duties in a Quantity Surveyor's office.

Housing accommodation available, if necessary, at economic rent.

Details and application forms (returnable by 7th SEPTEMBER) from City Architect, Council House, Bristol 1.

WEDNESFIELD URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

(a) CHIEF ASSISTANT ENGINEER.

(b) CHIEF ASSISTANT ARCHITECT.

The salaries in each case are on A.P.T. Special Grade (£785 to £1,070) commencing at £950 per annum.

Candidates must be qualified and have had considerable experience in the appointment for which they make application.

The district is developing rapidly and offers exceptional experience. The National Joint Council Conditions of Service will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examination.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 5th SEPTEMBER, 1959.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECTS (Final R.I.B.A.). Special Scale, £785-£1,070.

(b) ARCHITECTURAL ASSISTANT (Inter. R.I.B.A.). A.P.T. I, £610-£765.

(c) ASSISTANT QUANTITY SURVEYOR (Final R.I.C.S. or I.Q.S.). A.P.T. II, £880-£1,065.

Applications, stating date of birth and giving full particulars of education, training and past and present posts held, should be forwarded to J. R. Piggott, T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, within fourteen days of the publication of this advertisement.

HARRY TAYLOR,
Town Clerk.

SALOP COUNTY

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a CLERK OF WORKS to supervise the erection of new schools and other public buildings. Salary up to £17 17s. 0d. per week, depending on ability and experience. An expenses allowance of 30s. a week will be paid for a maximum period of two years to a married man appointed, whilst he is separated from his family. Forms of application obtainable from the County Architect, Column House, London-road, Shrewsbury, and returnable not later than 9th SEPTEMBER, 1959.

COUNTY BOROUGH OF EAST HAM.

PRINCIPAL ASSISTANT PLANNING OFFICER.
GRADE A.P.T. III (£880-£1,065).

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 4th SEPTEMBER, 1959.

CITY OF SHEFFIELD.

APPOINTMENT OF GROUP LEADER (SURVEYOR).
GRADE A.P.T. V.
SALARY £1,220-£1,375.

Applications are invited for the above mentioned appointment on the permanent staff of the City Architect, Mr. J. L. Womersley, F.R.I.B.A., Dist.T.P., M.T.P.I.

The successful applicant will be required to take charge of the Survey Group which is responsible for the survey and levelling of sites for all types of development carried out by the Department, the design and construction of road and sewer works, playing fields and public open spaces and the co-ordination of utility services in connection with new building work both in the outer areas and redevelopment of the inner areas of the City.

Applicants must hold a suitable qualification and preference will be given to Chartered Civil or Municipal Engineers.

Applications stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and the names and addresses of persons to whom reference may be made, should reach the undersigned by MONDAY, 7th SEPTEMBER, 1959.

JOHN HEYS,
Town Clerk.

6th August, 1959.

ASSISTANT ARCHITECT

required by Poplar Borough Council. Salary £1,100 per annum, including London Weighting. Applicants should have had experience in design and construction of multi-storey flats, houses, and public buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 7th SEPTEMBER, 1959.

BUILDING AND ESTATES

SURVEYOR required by Leicester Water Department to take charge of maintenance work on houses, offices, waterworks, buildings and estates and to design new buildings. Applicants should be registered architects or chartered surveyors or equivalent. Experience in building construction and maintenance by contract and direct labour. Salary in A.P.T. IV, £1,065-£1,220. National conditions of service apply. Superannuation medical examination. Applications to Engineer & Manager, Water Department, Bowling Green-street, Leicester, by AUGUST 31st.

ARCHITECTURAL, CIVIL, and PUBLIC HEALTH ENGINEERING DRAUGHTSMEN.

Pensionable posts for men and women aged at least 20 on 1.6.59 with at least 3 years' training, including adequate practical experience with appropriate technical study. At least one year must have been spent on full-time drawing office work. Men's starting salary (London) £542 10s. (20) to £783 (28 or over). Scale maximum £900. Promotion prospects. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form, quoting S68-69/59.

FRIMLEY AND CAMBERLEY URBAN DISTRICT COUNCIL.

Applications are invited for the undermentioned appointments in the Engineer and Surveyor's Department:

(a) PLANNING OFFICE ASSISTANT. Applicants should have had experience in the examination of plans in respect of planning regulations and building byelaws.

(b) ASSISTANT BUILDING INSPECTOR. Applicants should have a thorough knowledge of building construction and have had experience of inspection of buildings in course of erection.

The salary for each appointment will be Grade A.P.T. I (£610-£765), the point of commencement on the grade being in accordance with qualifications and experience. There will also be a car allowance, on the essential user scale, for appointment (b). Housing accommodation will be provided, if required, in respect of each appointment. The appointments are permanent and subject to the Council's superannuation scheme.

Applications stating age, qualifications and experience, etc., and the names of two referees should be delivered to the Engineer and Surveyor, Municipal Buildings, Camberley, not later than TUESDAY, 1st SEPTEMBER, 1959.

K. S. HARVEY,
Clerk of the Council.

Municipal Buildings,
London-road,
Camberley,
Surrey.
4th August, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD.

CLERK OF WORKS (BUILDING AND STRUCTURAL).

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS (Building and Structural), in connection with the construction of a new 600 bed: approximate contract value £3,500,000) GENERAL HOSPITAL at Huddersfield. Salary £1,000 per annum.

This project will be carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. Pite, Son and Fairweather. Preliminary contracts for the formation of the perimeter road and services ring mains and for the work of bulk excavation have been completed. The main building contract is scheduled to start in July/August, 1959, and to continue thereafter for a period of approximately six years.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Park-parade, Harrogate, not later than 30st AUGUST, 1959.

SOMERSET COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, viz:

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065-£1,220).

Applicants for posts in this grade must be Associate Members of The Royal Institute of British Architects with a good standard of design ability and a sound knowledge of modern methods of construction and be capable of handling projects from sketch plans to completion.

(b) ASSISTANT ARCHITECT, Special Grade (£785-£1,070).

Applicants must have passed Parts I and II of the R.I.B.A. final or special examination, or the equivalent at one of the recognised schools of architecture. Commencing salary will be within the grade, dependent upon the candidate's qualifications and experience.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765).

Applicants must have passed the Intermediate Examination of The Royal Institute of British Architects.

(d) JUNIOR QUANTITY SURVEYOR, A.P.T. I (£610-£765). (Subject to adoption by County Council.)

Applicants must have passed the Intermediate Examination of The Royal Institution of Chartered Surveyors and to have had several years' experience in an approved office.

All appointments are subject to the usual conditions of Local Government Service. Applications, accompanied by the names of two persons to whom reference can be made, should reach the undersigned not later than MONDAY, 31st AUGUST, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.
6th August, 1959.

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

PANEL OF CONSULTING ARCHITECTS.

The Board propose to establish a limited Panel of Private Architects, which will be operative for the period 1959-62. The selected Architects will be expected to work in consultation with the Regional Architect to the Board as and when they may be commissioned for complete or partial professional services.

The commissions may be (a) major hospital or departmental projects upwards of £125,000 in value, or (b) lesser hospital extensions or associated works. Architects who wish to be considered for selection should apply giving appropriate particulars of experience to the Secretary, 40 Eastbourne-terrace, London, W.2, by the 25th SEPTEMBER, 1959.

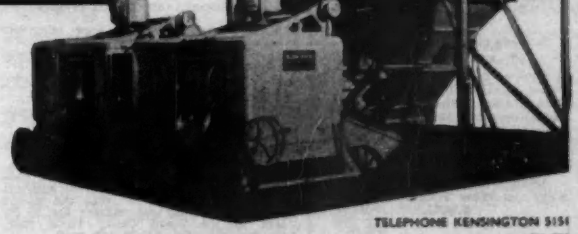
UNIVERSITY OF SOUTHAMPTON.

Applications are invited for the post of MECHANICAL MAINTENANCE ENGINEER from persons possessing experience in the design and supervision of the installation of new mechanical services and in the maintenance of oil-fired and solid fuel heating plant and artificial ventilation systems. Applicants should have served an apprenticeship with a Heating and Ventilating Engineer and should hold a Higher National Certificate or equivalent qualification. The post is permanent and superannuated. Salary £900-£1,100 plus child allowance. Housing accommodation may be provided in an appropriate case. Further particulars may be obtained from the Secretary and Registrar, The University of Southampton, to whom applications should be submitted by 7th SEPTEMBER, 1959, giving full particulars of age, present position, qualifications and experience, and the names of 3 referees, including at least one qualified engineer.

Better proportioned and cheaper concrete

SPEED, ACCURACY, ECONOMY, MOBILITY

BATCHMASTER



The fully-mobile BATCHMASTER will maintain aggregate supply to 75, 105, 125 or 145 Mixers working singly or in pairs. Its low height facilitates loading by tractor shovel; hydraulic weighing assures accurate proportioning; and units can be supplied with built-in bulk cement bin. Needs one man only to maintain maximum output from mixers. *Write for publication No. 267*

BLAW KNOX LTD Box No 113 90/94 Brompton Road London SW3

TELEPHONE KENSINGTON 5151

BK 552

NORFOLK EDUCATION COMMITTEE.

THE COUNTY TECHNICAL COLLEGE, KING'S LYNN.

Builders wishing to TENDER for the ERECTION of an AGRICULTURAL IMPLEMENT SHED (1,000 ft.) at the above-named College should forward their names to the undersigned by WEDNESDAY, 2nd SEPTEMBER, 1959.

F. LINCOLN RALPHS,
Chief Education Officer.
County Education Offices,
Stracey-road,
Norwich.

TO BUILDING CONTRACTORS.

Housing Committee invite TENDERS for ERECTION of 29 TRADITIONAL FLATS FOR OLD PEOPLE, Geoffenton-drive, Oldbury Court, Bristol.

Contractors willing to submit fixed-price tenders, based on Bills of Quantities, apply to City Architect, Council House, Bristol, 1, by 1st SEPTEMBER, enclosing 2 guineas deposit, payable to Bristol Corporation, refundable on receipt of bona-fide tender not subsequently withdrawn.

AXMINSTER RURAL DISTRICT COUNCIL.

42 DWELLINGS.

Application for Bills of Quantities to Architect, Fredk. S. Kett, Trinity-square, Axminster, by 1st SEPTEMBER, 1959.

Sealed Tenders to Clerk, Oak House, Axminster, 26th SEPTEMBER, 1959.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS

FIRM-PRICE TENDERS are invited for the ERECTION OF GROUPS OF GARAGES totalling 103 on 71 SITES spread over six of the Corporation's housing estates. General conditions may be inspected and tender forms, plans showing the several sites and specifications may be obtained from the Borough Architect, Town Hall, Reading. Tenders can be submitted for the erection of ALL the garages on any or all of the estates, but not in respect of individual sites only. Tenders to be returned to Town Clerk, Town Hall, Reading, by noon on FRIDAY, 11th SEPTEMBER, 1959. No tender considered unless enclosed in the endorsed envelope provided bearing no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

CITY OF PLYMOUTH.

TENDERS are invited from Building Contractors for:—

1. The ERECTION of a SCIENCE AND ADMINISTRATION BLOCK at the Plymouth and Devonport Technical College, Tavistock-road, Plymouth.
2. The ERECTION of PUBLIC CONVENIENCES at Granby-way, Devonport.

Applications, accompanied by a deposit of £3 3s. 0d. for each scheme, made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 26th AUGUST, 1959, will be considered.

Deposits will be refunded on receipt of bona fide tenders and subsequently withdrawn.

PUBLIC APPOINTMENTS

BOROUGH OF NEWCASTLE-UNDER-LYME.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Special Grade (£785-£1,070 p.a.).

Applications are invited for the above post. The commencing salary will be fixed in accordance with qualifications and experience.

Applicants should have passed Parts 1 and 2 of the R.I.B.A. examination and have had at least five years' experience including theoretical training.

The provision of housing accommodation will apply in suitable cases.

Application forms and conditions of service are obtainable from the Borough Engineer and Surveyor, Lancaster Building, High-street, Newcastle, Staffs., and must be returned to him within ten days of the publication of this advertisement.

C. J. MORTON,
Town Clerk.

WOLVERHAMPTON HOSPITAL MANAGEMENT COMMITTEE.

TECHNICAL WORKS ASSISTANT Required for Engineering Department. Duties include preparation of working drawings, assisting in preparation of specifications and surveys under the direction of Superintendent Engineer and Building Supervisor. Applicants should possess experience in this type of work. Salary £525-£625 per annum. 38-hour week. Apply giving age, experience and names of two referees, to the Group Secretary, The Royal Hospital, Wolverhampton.

COUNTY COUNCIL OF ESSEX.

ASSISTANT QUANTITY SURVEYOR (WORKING-UP), A.P.T.D. Grade I. Commencing salary according to qualifications and experience but not exceeding £765.

Application form from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, returnable with copies of three testimonials by 4th SEPTEMBER, 1959.

Canvassing disqualifies.

NORTHAMPTONSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at A.P.T. II (£765-£880) or A.P.T. III (£880-£1,065) according to qualifications and experience. Good general experience in design and construction and the preparation of working drawings is essential and a knowledge of school work is desirable. Training at one of the recognised schools of architecture and previous service with a local authority would be an asset.

A weekly sum of 25s. by way of temporary additional salary is payable, subject to review quarterly, to a married officer unable to find a house locally.

Applications giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope endorsed "Staff," to the County Architect, County Hall, Northampton, by THURSDAY, 10th SEPTEMBER.

J. ALLAN TURNER,
Clerk of the County Council.
County Hall,
Northampton.

BOROUGH OF SOUTHGATE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment in the Department of the Borough Engineer and Surveyor:—

A.P.T. Special Grade, £785-£1,070 plus London Weighting.

The post is permanent and superannuated and the starting salary will be fixed in accordance with qualifications and experience. Applicants must be Associates of the Royal Institute of British Architects.

Forms of application may be obtained from the Borough Engineer and Surveyor and should be returned to the undersigned not later than 12 noon on MONDAY, 31st AUGUST, 1959.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,
Town Clerk.
Town Hall,
Palmers Green, N.13.
August, 1959.

HUNTINGDONSHIRE

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF A SENIOR ARCHITECTURAL ASSISTANT, GRADE A.P.T. IV.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. IV, £1,065-£1,220 per annum.

Candidates should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and have had considerable experience in the design of Schools, Police and other County Buildings.

Further details and application forms may be obtained from The County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by 4th SEPTEMBER, 1959.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

CITY OF SALFORD.

HOUSING DEPARTMENT.

PROPERTY AGENT,
HOUSING ACT, 1954.

Applications are invited from CRAFTSMEN or persons with considerable experience in connection with REPAIR AND MAINTENANCE OF HOUSE PROPERTY. Will be required to collect rents in addition to inspection for repairs. Salary: Miscellaneous V, £650-£714 per annum. The appointment is superannuable and subject to the passing of a medical examination. Applications, stating age, qualifications, experience, present and previous appointments, together with the names and addresses of three persons to whom reference can be made, should be forwarded to the Housing Manager, 36 Eccles Old-road, Salford, 6, not later than SATURDAY, the 29th AUGUST, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

CORBY DEVELOPMENT CORPORATION.

CLERK OF WORKS, ESTATES DEPARTMENT.

Applicants are invited for an appointment as a housing maintenance CLERK OF WORKS in the Estates Department. The salary will be within the New Towns Grade A.P.T. II (£765-£880 per annum) and subject to the usual deduction for Superannuation under the Local Government Superannuation Scheme. Housing will be available and removal expenses paid.

Applicants are expected to have a sound knowledge of all building trades and to be experienced in the inspection of properties. Applications stating age, qualifications, training and experience, present appointment and salary, and previous appointments, together with the names of two referees must reach the undersigned by AUGUST 31, 1959.

R. F. BROOKS GRUNDY, Esq.
General Manager.
Corby Development Corporation,
Spencer House,
Corby,
Northants.

CITY OF LEEDS.

WORKS DEPARTMENT.

Applications are invited for the appointment of:—

QUANTITY SURVEYOR, Grade A.P.T. II (£765 to £880 per annum).

Applicants must be thoroughly experienced in the preparation of Bills of Quantities, Estimates, Valuation of Works in Progress and Settlement of Final Accounts.

The appointment is subject to the provisions of the Local Government Superannuation Acts, and the successful applicant will be required to pass a medical examination.

Forms of application may be obtained from the Director of Works, Sweet-street, Leeds, 11, to whom they should be returned not later than MONDAY, 7th SEPTEMBER, 1959.

Canvassing in any form, either directly or indirectly, will be a disqualification.

ROBERT CRUTE,
Town Clerk.

BOROUGH OF BEXLEY.

ARCHITECTURAL APPOINTMENTS.

Applications are invited for the following posts in the Borough Engineer and Surveyor's Department.

(a) ARCHITECTURAL ASSISTANT.
(b) ARCHITECTURAL DRAUGHTSMAN.

The salary for each of these posts is within Grade A.P.T. I (£610-£765 per annum) plus London Weighting. Preference will be given to candidates with experience of housing and school projects.

Forms of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 7th SEPTEMBER, 1959.

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

MIDDLESEX COUNTY COUNCIL.

Required in County Architect's Department, initially at Westminster, QUANTITY SURVEYOR, A.P.T. III (£910-£1,095), to prepare detailed and approximate estimates for building works. R.I.C.S. or equal qualifications desirable. Established; pensionable; prescribed conditions. Applicatio forms (S.A. f'scap e.) from the County Architect, 8 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1, returnable immediately. (Quote Z.988B.)

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

Following a revision of the establishment of the Education and General Section applications are invited for the undermentioned vacancies on the permanent staff of the City Architect, Mr. J. L. Womersley, F.R.I.B.A., Dist. T.P., M.T.P.I. for work on an expanding and interesting programme comprising large and important civic buildings included in the re-building of large areas in the city centre: colleges, schools, libraries, art gallery, old people's and children's homes, bus garages, fire and police stations, health centres and clinics.

(a) GROUP LEADER ARCHITECTS. Grade A.P.T. V (Education and General) (£1,220-£1,375).
(b) SENIOR ASSISTANT ARCHITECTS. Grade A.P.T. IV (Education and General) (£1,065-£1,220).
(c) ASSISTANT ARCHITECTS. Grade S.C. (£785-£1,070).

Commencing salaries within the above grades according to qualifications and experience.

Applications stating post applied for, age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made, should reach me not later than THURSDAY, 3rd SEPTEMBER, 1959.

JOHN HEYS,
Town Clerk.
13th August, 1959.

LANCASHIRE COUNTY COUNCIL.

Applications are invited for appointment as CLERKS OF WORKS within the Salary Scale £850-£950 per annum, to take charge of groups of building contracts in various parts of the County Area. The appointments are temporary but carry subsistence and travelling allowances in accordance with the Scale, and previous Local Government Service is reckonable for Superannuation purposes. Car driver essential.

Application Forms obtainable from the County Architect, P.O. Box 26, County Hall, Preston, to be returned by the 1st SEPTEMBER, 1959, quoting Ref. A/TB.

Previous applicants should not re-apply.

WESTMINSTER CITY COUNCIL (Housing Dept.) requires MAINTENANCE CLERK OF WORKS.

£610 to £765 (plus London Weighting max. £30) per annum. Private Act Superannuation Scheme: contributions 4 per cent.; 44-hour week. Thorough experience of building trade and supervision of maintenance, repair and painting works. Applications detailing experience, qualifications, etc., with two copy testimonials, to Town Clerk, Westminster City Hall, Charing Cross-road, W.C.2, within 14 days of appearance of advertisement.

COUNTY BOROUGH OF GREAT YARMOUTH.

SCHOOLS ARCHITECT'S DEPARTMENT.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT.

Applications are invited to fill the vacancy for a JUNIOR ASSISTANT within A.P.T. grade II (£765-£880).

Candidates should have had experience in School construction.

Applications stating age, qualifications, experience, details of past and present appointments together with the names of two referees should reach the Schools Architect, 22 Euston-road, Great Yarmouth, by 1st SEPTEMBER, 1959.

D. G. FARROW,
Chief Education Officer.
22 Euston-road,
Great Yarmouth.

CITY OF COVENTRY

ARCHITECTURAL AND PLANNING DEPARTMENT

(Quantity Surveying Division)

Vacancies exist for QUANTITY SURVEYORS as follows:—

(a) QUANTITY SURVEYORS, "Special" Grade (£785—£1070)
(b) ASSISTANT QUANTITY SURVEYORS, APT. II (£765—£880)
(c) QUANTITY SURVEYING ASSISTANTS, APT. I (£610—£765)

with additional local award of £36 p.a. on salaries up to £795 in certain circumstances.

Appointments may be made, according to experience and qualification held, within the grade, and are permanent and pensionable, subject to satisfactory medical certificate. For posts (a) preference given to A.R.I.C.S. or other appropriate qualifications, for posts (b) minimum Intermediate R.I.C.S. with good experience, approaching Final standard or with part-pass in Final Examination, for posts (c) Intermediate R.I.C.S. or other appropriate examination with professional experience.

HOUSING ACCOMMODATION may be granted in approved circumstances, also interest-free loan to cover removal expenses.

An interesting programme of work is being undertaken for major City redevelopment projects, new schools and housing, including multi-storey flats, also smaller works of a varied nature, many involving new constructional techniques.

Further details and application form (stating post for which application is made) may be obtained from the City Architect and Planning Officer, Bull Yard, Coventry, to be returned by 4th September, 1959.

BRISTOL CORPORATION.

ARCHITECTS' COMMITTEE.

Applications invited for following permanent Staff appointments:—

(a) SENIOR ASSISTANT ARCHITECT. Grade A.P.T. IV (£1,065 x £55(1) x £50-£1,220 p.a.).

(b) SENIOR ASSISTANT ARCHITECT. Special Scale (£785 x £40(3) x £45 x £40(3)-£1,070 p.a.).

(c) ASSISTANT ARCHITECTS. Grade A.P.T. I (£610 x £30(4) x £35-£765).

(d) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. I (£610 x £30(4) x £35-£765).

Appointments will be appropriate to professional experience and qualifications. Applicants for (a) must be Associates of the R.I.B.A. and have had considerable experience in design, construction and contract administration, preferably with a large Local Authority.

Applicants for (b) must have passed Parts I and II of the R.I.B.A. Final Examination.

Applicants for (d) should have passed R.I.C.S. Intermediate Examination or equivalent and have had experience in abstracting and billing and general duties in a Quantity Surveyor's office.

Housing accommodation available, if necessary, at economic rent.

Details and application forms (returnable by 7th SEPTEMBER) from City Architect, Council House, Bristol 1.

WEDNESFIELD URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

(a) CHIEF ASSISTANT ENGINEER.

(b) CHIEF ASSISTANT ARCHITECT.

The salaries in each case are on A.P.T. Special Grade (£785 to £1,070) commencing at £950 per annum.

Candidates must be qualified and have had considerable experience in the appointment for which they make application.

The district is developing rapidly and offers exceptional experience. The National Joint Council Conditions of Service will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examination.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 5th SEPTEMBER, 1959.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECTS (Final R.I.B.A.). Special Scale, £785-£1,070.

(b) ARCHITECTURAL ASSISTANT (Inter. R.I.B.A.). A.P.T. I, £610-£765.

(c) ASSISTANT QUANTITY SURVEYOR (Final R.I.C.S. or I.Q.S.), A.P.T. II, £880-£1,095.

Applications, stating date of birth and giving full particulars of education, training and past and present posts held, should be forwarded to J. R. Piggott, T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, within fourteen days of the publication of this advertisement.

HARRY TAYLOR,
Town Clerk.

SALOP COUNTY

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a CLERK OF WORKS to supervise the erection of new schools and other public buildings. Salary up to £17 17s. 0d. per week, depending on ability and experience. An expenses allowance of 30s. a week will be paid for a maximum period of two years to a married man appointed, whilst he is separated from his family. Forms of application obtainable from the County Architect, Column House, London-road, Shrewsbury, and returnable not later than 9th SEPTEMBER, 1959.

COUNTY BOROUGH OF EAST HAM.

PRINCIPAL ASSISTANT PLANNING OFFICER.
GRADE A.P.T. III (£880-£1,065).

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 4th SEPTEMBER, 1959.

CITY OF SHEFFIELD.

APPOINTMENT OF GROUP LEADER (SURVEYOR).
GRADE A.P.T. V.
SALARY £1,220-£1,375.

Applications are invited for the above mentioned appointment on the permanent staff of the City Architect, Mr. J. L. Womersley, F.R.I.B.A., Dist.T.P., M.T.P.I.

The successful applicant will be required to take charge of the Survey Group which is responsible for the survey and levelling of sites for all types of development carried out by the Department, the design and construction of road and sewer works, playing fields and public open spaces and the co-ordination of utility services in connection with new building work both in the outer areas and redevelopment of the inner areas of the City.

Applicants must hold a suitable qualification and preference will be given to Chartered Civil or Municipal Engineers.

Applications stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and the names and addresses of persons to whom reference may be made, should reach the undersigned by MONDAY, 7th SEPTEMBER, 1959.

JOHN HEYS,
Town Clerk.

6th August, 1959.

ASSISTANT ARCHITECT

required by Poplar Borough Council. Salary £1,100 per annum, including London Weighting. Applicants should have had experience in design and construction of multi-storey flats, houses, and public buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 7th SEPTEMBER, 1959.

BUILDING AND ESTATES

SURVEYOR required by Leicester Water Department to take charge of maintenance work on houses, offices, waterworks, buildings and estates and to design new buildings. Applicants should be registered architects or chartered surveyors or equivalent. Experience in building construction and maintenance by contract and direct labour. Salary in A.P.T. IV, £1,065-£1,220. National conditions of service apply. Superannuation medical examination. Applications to Engineer & Manager, Water Department, Bowling Green-street, Leicester, by AUGUST 31st.

ARCHITECTURAL, CIVIL,

and PUBLIC HEALTH ENGINEERING DRAUGHTSMEN. Pensionable posts for men and women aged at least 20 on 1.6.59 with at least 3 years' training, including adequate practical experience with appropriate technical study. At least one year must have been spent on full-time drawing office work. Men's starting salary (London) £542 10s. (20) to £783 (28 or over). Scale maximum £900. Promotion prospects. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form, quoting S68-69/59.

FRIMLEY AND CAMBERLEY URBAN DISTRICT COUNCIL.

Applications are invited for the undermentioned appointments in the Engineer and Surveyor's Department:

(a) PLANNING OFFICE ASSISTANT. Applicants should have had experience in the examination of plans in respect of planning regulations and building byelaws.

(b) ASSISTANT BUILDING INSPECTOR. Applicants should have a thorough knowledge of building construction and have had experience of inspection of buildings in course of erection.

The salary for each appointment will be Grade A.P.T. I (£610-£765), the point of commencement on the grade being in accordance with qualifications and experience. There will also be a car allowance, on the essential user scale, for appointment (b). Housing accommodation will be provided, if required, in respect of each appointment. The appointments are permanent and subject to the Council's superannuation scheme.

Applications stating age, qualifications and experience, etc., and the names of two referees should be delivered to the Engineer and Surveyor, Municipal Buildings, Camberley, not later than TUESDAY, 1st SEPTEMBER, 1959.

K. S. HARVEY,
Clerk of the Council.

Municipal Buildings,
London-road,
Camberley,
Surrey.
4th August, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD.

CLERK OF WORKS (BUILDING AND STRUCTURAL).

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS (Building and Structural), in connection with the construction of a new 600 bed: approximate contract value £3,500,000) GENERAL HOSPITAL at Huddersfield. Salary £1,000 per annum.

This project will be carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. Pite, Son and Fairweather. Preliminary contracts for the formation of the perimeter road and services ring mains and for the work of bulk excavation have been completed. The main building contract is scheduled to start in July/August, 1959, and to continue thereafter for a period of approximately six years.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience at Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Park-parade, Harrogate, not later than 31st AUGUST, 1959.

SOMERSET COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, viz:

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065-£1,220)

Applicants for posts in this grade must be Associate Members of The Royal Institute of British Architects with a good standard of design ability and a sound knowledge of modern methods of construction and be capable of handling projects from sketch plans to completion.

(b) ASSISTANT ARCHITECT, Special Grade (£785-£1,070).

Applicants must have passed Parts I and II of the R.I.B.A. final or special examination, or the equivalent at one of the recognised schools of architecture. Commencing salary will be within the grade, dependent upon the candidate's qualifications and experience.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765).

Applicants must have passed the Intermediate Examination of The Royal Institute of British Architects.

(d) JUNIOR QUANTITY SURVEYOR, A.P.T. I (£610-£765). (Subject to adoption by County Council.)

Applicants must have passed the Intermediate Examination of The Royal Institution of Chartered Surveyors and to have had several years' experience in an approved office.

All appointments are subject to the usual conditions of Local Government Service. Applications, accompanied by the names of two persons to whom reference can be made, should reach the undersigned not later than MONDAY, 31st AUGUST, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.
6th August, 1959.

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

PANEL OF CONSULTING ARCHITECTS.

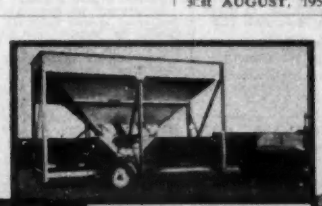
The Board propose to establish a limited Panel of Private Architects, which will be operative for the period 1959-62. The selected Architects will be expected to work in consultation with the Regional Architect to the Board as and when they may be commissioned for complete or partial professional services.

The commissions may be (a) major hospital or departmental projects upwards of £125,000 in value, or (b) lesser hospital extensions or associated works. Architects who wish to be considered for selection should apply giving appropriate particulars of experience to the Secretary, 40 Eastbourne-terrace, London, W.2, by the 25th SEPTEMBER, 1959.

UNIVERSITY OF SOUTHAMPTON.

Applications are invited for the post of MECHANICAL MAINTENANCE ENGINEER from persons possessing experience in the design and supervision of the installation of new mechanical services and in the maintenance of oil-fired and solid fuel heating plant and artificial ventilation systems. Applicants should have served an apprenticeship with a Heating and Ventilating Engineer and should hold a Higher National Certificate or equivalent qualification. The post is permanent and superannuated. Salary £900-£1,100 plus child allowance. Housing accommodation may be provided in an appropriate case. Further particulars may be obtained from the Secretary and Registrar, The University of Southampton, to whom applications should be submitted by 7th SEPTEMBER 1959, giving full particulars of age, present position, qualifications and experience, and the names of 3 referees, including at least one qualified engineer.

Better proportioned and cheaper concrete



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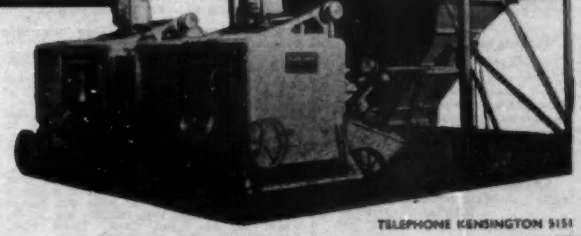

The fully-mobile BATCHMASTER will maintain aggregate supply to 75, 105, 125 or 145 Mixers working singly or in pairs. Its low height facilitates loading by tractor shovel; hydraulic weighing assures accurate proportioning; and units can be supplied with built-in bulk cement bin. Needs one man only to maintain maximum output from mixers. *Write for publication No. 267*

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COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for:—

ASSISTANT ENGINEERS. Special grade, £785 to £1,070.

Applicants should be associate members of the Institution of Civil Engineers or the Institution of Municipal Engineers. One of the Assistants will be engaged on main drainage schemes and should have experience in the design of sewage schemes and the other on work in connection with private street works, etc.

ENGINEERING ASSISTANT, Grade A.P. and T. I., £610-£765.

Applicants should have completed their professional training in Municipal Engineering.

SURVEYING ASSISTANT, Grade A.P. and T. I., £610-£765.

Applicants should be competent land surveyors with experience of chain and instrument surveying and preferably have been trained in the Ordnance Survey Department.

All the appointments are superannuable and subject to medical examination.

Applications giving age, experience and the names of not more than three referees should reach the Borough Engineer and Surveyor, High-street Buildings, Huddersfield, not later than 4th SEPTEMBER, 1959.

Canvassing will be a disqualification.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.

RIVER DOVE WATER BOARD require a SUPERINTENDENT for a Water Treatment and Pumping Station at Melbourne, Derbyshire. These are new works of modern design to treat 14 mgd. by flocculation and rapid gravity filtration and include 2,400 horse power of electrical pumps. Salary in the scale of A.P.T. II (£765 to £880). National Conditions of Service. Superannuation and medical examination will be applied. New house available to rent. Applicants should have experience in the control and operation of water treatment plant and have some knowledge of electrical switchgear and large sized pumps. Applications to the Engineer & Chief Executive, Board Offices, Bowling Green-street, Leicester, by the 7th SEPTEMBER, 1959.

COUNTY BOROUGH OF BOOTLE.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade III, £880 to £1,065 per annum.

Preference will be given to those having experience in the design and planning of schools.

Application forms, from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., are returnable by FRIDAY, 28th AUGUST, 1959.

By Order,
HAROLD PARTINGTON,
Town Clerk.

GENERAL FOREMAN of considerable experience required by Camberwell Borough Council for interesting contract of 64 multi-storey flats and 32 houses with roads and drainage. Good terms offered to first-class man with proved record and a following. Write giving full details of age, recent contracts and names of two referees to Town Clerk, Town Hall, S.E.5.

METROPOLITAN POLICE RECEIVER'S OFFICE

requires

ARCHITECTURAL DRAUGHTSMEN/WOMEN

and

SANITARY ENGINEERING DRAUGHTSMEN

for interesting and varied work in connection with

POLICE HOUSING AND NON-HOUSING BUILDING PROGRAMMES

£570 p.a. at age 21 rising by annual increments to a maximum of £900 p.a.

Starting pay according to age.

Applicants to have Ordinary National Certificate or a minimum qualification, or to be of Inter-R.I.B.A. standard. Previous experience on similar work would be considered an advantage.

Apply in writing to:—

Room 520,
Receiver's Office,
New Scotland Yard,
S.W.1.

CWMBRAN DEVELOPMENT CORPORATION.

APPOINTMENT OF ASSISTANT ARCHITECT, A.P.T. III/IV.

Applications are invited for the above superannuable post in my department in the Salary Range £880-£1,220 with a commencing salary according to qualifications and experience.

Candidates should be Associates of the R.I.B.A. with suitable office experience and should have had good experience in shop design construction and layout and Town Centre development.

Housing accommodation will be made available to the successful applicant if needed.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 7th SEPTEMBER, 1959.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran,
Mon.

COUNTY BOROUGH OF DUDLEY.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) CHIEF QUANTITY SURVEYOR, A.P.T. Grade V, £1,220-£1,375.

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I, £610-£765.

(c) JUNIOR ARCHITECTURAL ASSISTANT, Higher General Division.

Applicants for (a) must be Associates of the Royal Institution of Chartered Surveyors, Quantities Section, and the successful candidate will be responsible for the preparation of Bills of Quantities, interim measurements, certificates and the settlement of final accounts for schools, houses, public buildings, etc. Housing accommodation will be offered, if required.

Applicants for (b) should have passed the intermediate examination of the R.I.C.S. and should have a thorough knowledge of taking off, preparing Bills of Quantities and site measurement.

Applicants for (c) should be probationers of the R.I.B.A. and should have a knowledge of basic building construction.

Applications stating age, qualifications and experience, with the names and addresses of two referees, must be received by me by the 7th SEPTEMBER, 1959.

P. D. WADSWORTH,
Town Clerk.

The Council House,
Dudley.
6th August, 1959.

SPALDING RURAL DISTRICT COUNCIL.

CLERK OF WORKS.

Applications are invited for the full-time appointment of CLERK OF WORKS in A.P.T. Grade I (£610-£765) per annum.

The successful applicant will work under the direction of the Council's Architect and Building Surveyor, and his main duties will be the inspection of houses, roads and sewerage works in progress. He will be required to provide and maintain a car for which a travelling allowance will be paid in accordance with the National Scale.

The Council are prepared to let a house in the Rural District to the successful applicant.

Appointment is subject to the Local Government Superannuation Acts, 1937 to 1953, and to a satisfactory Medical Examination.

Applicants, stating age, qualifications, and experience together with two persons to whom reference may be made, to reach the undersigned not later than 19th SEPTEMBER, 1959.

G. S. ASHWORTH,
Clerk of the Council.

Rural Council Offices,
Priory-road,
Spalding,
Lincs.

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

GENERAL ARCHITECTURAL SECTION:

One CHIEF ASSISTANT ARCHITECT, Grade IV (£1,065-£1,220).

Two ASSISTANT ARCHITECTS, Special (£785-£1,070).

One ASSISTANT ARCHITECT, Grade I (£610-£765).

SCHOOLS SECTION:

One ASSISTANT ARCHITECT, Grade I (£610-£765).

Applications are invited for the above appointments.

Applications stating age, education, training, qualifications, present and past appointments (with dates and salaries) and experience together with the names and addresses of two referees are to be sent to the Town Clerk, Town Hall, Halifax, by 29th AUGUST, 1959.

COUNTY BOROUGH OF BIRKENHEAD.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for a number of posts as ASSISTANT ARCHITECTS, Grade A.P.T. IV (£1,065-£1,220). Salaries commensurate on qualifications and experience. An extensive programme includes Schools, Housing, Multi-storey flats, Municipal Baths and many major projects about to commence or under construction. The appointments are superannuable and subject to one month's notice on either side. Form of application and further particulars from Borough Architect's Department, 3 Conway-street, Birkenhead.

Closing date for applications 26th AUGUST, 1959.

Relationship to Members or Senior Officers of the Council must be disclosed.

LIVERPOOL REGION CHILDREN'S HOSPITAL MANAGEMENT COMMITTEE.

BUILDING SUPERVISOR required to be responsible for the planning and supervision of the building maintenance work of the Group under the direction of the Superintendent Engineer. The work will include the preparation of estimates, drawings and specifications, etc. The person appointed must have served a full apprenticeship as a craftsman in an appropriate trade and have had some experience as a general foreman in the carrying out of building contracts. It is also desirable that he should have the Ordinary National Certificate or a comparable qualification.

This is a superannuable post, with a salary scale of £745 by £25(3) by £30(2) to £880 per annum. Non-resident.

Applications, stating age, experience and qualifications, with the names and addresses of two referees, to be forwarded to the Group Secretary, Alder Hey Children's Hospital, West Derby, Liverpool, 12, as soon as possible.

WELSH REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DIVISION.

Applications are invited for the post of PRINCIPAL ASSISTANT ARCHITECT on the permanent staff of the Regional Architect in accordance with Whitley Council Conditions of Service. The salary is in accordance with Scale II, £1,195 x £45(2) x £55(1) x £45(2) x £30(1)-£1,420.

Applicants must be Registered Architects and thoroughly experienced in the preparation of working and detailed drawings, specifications and supervision of works in progress. A knowledge of hospital planning and design is essential.

The successful candidate will be responsible to the Regional Architect for a major division of work, involving travelling throughout the Principality. A motor mileage allowance and subsistence expenses in accordance with scale will be payable.

Applications, stating age, qualifications, experience, present and previous appointments and salary, the names of three referees, should be sent to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, within 14 days of appearance of advertisement.

SENIOR ASSISTANT ARCHITECT.

New 512-Bed Hospital at Swansea.

Applications are invited from REGISTERED ARCHITECTS for following pensionable post on TEMPORARY staff of the Regional Architect, 5-7 Museum-place, Cardiff, in connection with the preparation of drawings and specifications for the above new hospital.

Salary: £1,050 x £30(3) x £35(3)-£1,245.

Experience in hospital design, though desirable, is not essential, but applicants should be widely experienced in general architectural practice.

Applications, stating age, qualifications, experience, present position, and salary, together with names of two referees, should be addressed to the Secretary of the Board, Temple of Peace and Health, Cathays Park, Cardiff (from whom further information may be obtained) within fourteen days of this advertisement appearing.

Applications invited from REGISTERED ARCHITECTS for post of TEMPORARY ASSISTANT ARCHITECT on staff of Regional Architect, 7 Museum-place, Cardiff, at a salary of £730 x £25(2) x £30(2) x £35(5) x £40(1) to £1,055.

Applicants must be Registered Architects having passed the final examination of the R.I.B.A. and well experienced in the preparation of ¼ scale working drawings, details, specifications, surveying, levelling and the supervision of contracts. Appointment subject to National Health Service Regulations and terminable by one month's notice on either side. Successful candidate will be required to pass a medical examination.

Applications, stating age, experience, qualifications, present position and salary, and the names of two referees to the Secretary, Welsh Regional Hospital Board, Temple of Peace, Cardiff, within fourteen days of appearance of advertisement.

CITY AND COUNTY OF BRISTOL.

CITY ESTATES SURVEYOR AND VALUER'S DEPARTMENT.

ASSISTANT MAINTENANCE SURVEYOR, A.P.T. I (£610-£765).

Applications, giving age, qualifications, experience and addresses of three referees, to City Estates Surveyor and Valuer, The Exchange, Corn-street, Bristol, 1, within 14 days of appearance of this advertisement. Post pensionable; one calendar month's notice; N.J.C. Conditions of Service; in case of new entrant to Service, medical examination and six months' probation.

Applicants should preferably have passed Intermediate Examination of R.I.C.S. Building Sub-division) or other approved examination and have had good experience of repair, maintenance and adaptation of public buildings and of all types of property held for public purposes, but applications considered from candidates who are studying for such a qualification but have not yet reached intermediate standard.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancy exists for SENIOR ARCHITECT, Salary A.P.T. Grade V, £1,220 x £55(1) and £50(2) to £1,375 per annum. Applicants must be fully qualified. National Joint Council Conditions of Service. Pensionable post. Canvassing disqualifies. Application Forms from The County Architect, County Offices, Matlock, to be returned as soon as possible.

WELSH REGIONAL HOSPITAL BOARD.

APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications invited for post of TEMPORARY CLERK OF WORKS to supervise the erection of the Second Stage of the New Hospital at Glangwili, Carmarthen, for a period of approximately twenty-four months.

Applicants should have a sound knowledge of building construction, be competent in interpretating architects' drawings and specifications, setting out of work and keeping records, etc. A comprehensive experience of all classes of reinforced concrete work is essential. The possession of a recognised qualification would be an advantage. Salary £780 per annum.

The successful candidate is required to pass a medical examination and to contribute to the Superannuation Fund.

Applications to the Secretary of the Board, Temple of Peace and Health, Cathays Park, Cardiff, within fourteen days from the appearance of this advertisement, stating age, qualifications, present position and salary, previous experience and names of two referees.

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

Vacancies on permanent staff as follows:

(a) CHIEF ASSISTANT PLANNING OFFICER, J.N.C. Scale B (Maximum £1,485);

(b) SENIOR ASSISTANT PLANNING OFFICER, £1,220-£1,375;

(c) ASSISTANT PLANNING OFFICER, £785-£1,070

(d) PLANNING ASSISTANT, £785-£1,070;

(e) DEPUTY GROUP ARCHITECT, £785-£1,070;

(f) ARCHITECTURAL ASSISTANTS (2 posts), £765-£1,070.

Plus London Allowance, except post (a). Commencing salary according to qualifications and experience.

Applications, giving full details, to Thomas E. North, 70 West Ham-lane, E.15.

BRITISH RAILWAYS

Applications are invited for the following positions in the office of the Architect, Eastern Region, King's Cross Station. (1) ASSISTANT ARCHITECT. Starting Salary £943 per annum. Applicants should be qualified architects with some years practical experience. (2) ASSISTANT ARCHITECT. Starting Salary £833 per annum. Applicants should be qualified or should have passed the Intermediate R.I.B.A. examination with some years' practical experience. (3) ARCHITECTURAL ASSISTANT. Starting Salary according to qualifications and experience. The office is engaged on work of a varied and interesting character and a progressive approach to design and building techniques is essential. The successful applicants will be given responsibility for design, administration and site supervision appropriate to their ability. Five-day week and concessionary rail travel. Apply in writing stating post applied for and giving particulars of age, experience and qualifications to the Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1.

CITY OF BRADFORD
EDUCATION COMMITTEE.

BRADFORD TECHNICAL COLLEGE.

Principal: J. R. MOORE, B.Sc., A.R.I.C., F.C.S.

APPOINTMENT OF GRADE "B" ASSISTANTS IN DEPARTMENT OF BUILDING.

Applications are invited for three posts:

(i) CARPENTRY AND JOINERY.
(ii) PLUMBING: To teach up to Final City and Guilds level with general building subjects.
(iii) GENERAL SUBJECTS: To teach English, Science and Calculations to building craft students.

The salary will be in accordance with grade "B" of the Technical Burnham Report.

Forms of application may be obtained from the Director of Education, Town Hall, Bradford, 1, to whom the forms should be returned not later than 7th SEPTEMBER, 1959.

A. SPALDING,
Director of Education.

SCOTTISH SPECIAL
HOUSING ASSOCIATION LTD.

ARCHITECT (RESEARCH AND DEVELOPMENT).

The Department of Health for Scotland and the Scottish Special Housing Association Ltd. have decided to set up a Joint Development Group to carry out a comprehensive programme of research and development in the design and construction of multi-storey housing. This will involve carrying through a continuing programme of building schemes incorporating multi-storey flats.

The Association have a vacancy for one ARCHITECT in the Group (to complete a team of five) at a salary scale of £780-£1,135 with placing for age and experience. The post will call for enthusiasm and initiative and will offer scope for an Architect with experience and an interest in contemporary building.

The post is subject to superannuation under the Local Government Acts. A house may be available, if required.

Application forms, with particulars, may be obtained from The Secretary, Scottish Special Housing Association Ltd., 19 Palmerston-place, Edinburgh, 12.

PRISON COMMISSIONERS
require ARCHITECT (unestablished post) in Prison and Borstal Service, based on London. Candidates must be qualified architects with good professional experience. Duties, mainly design, for all types of buildings. Salary Scale £805-£1,260 p.a. Forms from M.L.N.S. Technical and Scientific Register (K), 26 King-street, London, S.W.1, quoting J.153/9A.

BOROUGH OF
MACCLESFIELD.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT in the Borough Architect's Department at a salary in accordance with the A.P.T. Special Scale (£785-£1,070).

Housing accommodation may be made available if required.

Applications stating age, qualifications, experience, present and previous appointments, together with the names of two referees, should reach the undersigned by TUESDAY, the 1st SEPTEMBER, 1959.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

COUNTY BOROUGH OF
SOUTHEND-ON-SEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

ASSISTANT ARCHITECT. Grade A.P.T. IV (£1,065 x £55 x £50(2)-£1,220).

TECHNICAL ASSISTANT (ARCHITECTURAL). Grade A.P.T. I (£610 x £30(4) x £35-£765).

SENIOR ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. V (£1,220 x £55 x £50(2)-£1,375).

ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. IV (£1,065 x £55 x £50(2)-£1,220).

ASSISTANT QUANTITY SURVEYOR. Special Classes Scale (£785 x £40(6) x £45-£1,070).

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, by 7th SEPTEMBER, 1959.

Canvassing will disqualify. Any candidate who is related to a member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

BOROUGH OF UXBRIDGE.

BUILDING SUPERVISOR BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the above appointment on the established staff for the inspection of building repairs to Corporation property.

Applicants must be qualified craftsmen with some years' experience as trade foreman or general foreman. Salary within Grade Misc. IV (£620-£680).

Applications in writing should be addressed to H. E. G. Stripp, Esq., A.M.I.C.E., Borough Surveyor, 263 High-street, Uxbridge, Middx., giving the names of two persons to whom reference may be made.

JOHN POOLE,
Town Clerk.

COUNTY BOROUGH OF
EAST HAM.

CLERK OF WORKS (GENERAL BUILDING) HOUSING DEPARTMENT.

Applications are invited for the above appointment. Salary in accordance with Grade A.P.T. I (£610 x £30(4) x £35(1)-£765 per annum, plus London Weighting). Further details and form of application (returnable by 3rd SEPTEMBER, 1959) from the Town Clerk, Town Hall, East Ham, E.6.

ASSISTANT
MAINTENANCE SURVEYOR required by Poplar Borough Council. Permanent post. Salary A.P.T. I (£610-£765, plus "Weighting"). Commencing salary according to qualifications and experience. Application forms from the Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 31st AUGUST, 1959.

METROPOLITAN
BOROUGH OF ISLINGTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff:—

(a) 1 SENIOR ASSISTANT ARCHITECT. Grade A.P.T. IV/V (£1,065-£1,375 p.a.).

(b) 2 ARCHITECTURAL ASSISTANTS. Grade A.P.T. II/III (£765-£1,065 p.a.).

(c) 1 JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. I (£610-£765 p.a.).

Applicants for appointment (a) must possess A.R.I.B.A. with considerable experience including the design and construction of multi-storey flats.

Applicants for appointments (b) should have passed the Intermediate examination of the R.I.B.A.

Application forms, returnable by FIRST POST ON MONDAY, 31st AUGUST, 1959, obtainable from Mr. C. N. Cowney, Borough Engineer and Surveyor, Town Hall, Upper-street, N.1.

H. DIXON CLARK,
Town Clerk.

JUNIOR ARCHITECTURAL
DRAUGHTSMAN required by Hayes and Harlington U.D.C. Salary within Grade A.P.T. I i.e., £610-£765 per annum, plus appropriate London Weighting, up to 20 years £10 per annum; 21-25 years £20 per annum; 26 years and over £30 per annum. Preference will be given to Probationers of the Royal Institute of British Architects. The Council is unable to assist with the provision of housing accommodation. Five-day week. Further particulars of duties, conditions of service and form of application obtainable from the undersigned which when completed must be returned by 7th SEPTEMBER, 1959.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes, Middlesex.

BOROUGH OF
WATFORD.

APPOINTMENT OF CLERK OF WORKS (TEMPORARY).

Applications are invited for the above appointment for duties in connection with housing work at a salary of £14 10s. per week.

Applications to the undersigned by 26th AUGUST, 1959.

F. C. SAGE,
Borough Engineer.

Town Hall,
Watford.

COUNTY BOROUGH OF
CROYDON.

TEMPORARY CLERK OF WORKS.

Applications are invited for this appointment from persons accustomed to housing contracts, including multi-storey flats. Salary £15 17s. 6d. per week or £16 7s. 6d. if holding an approved qualification. Application forms obtainable from the Borough Engineer, Town Hall, Croydon. Closing date 7th SEPTEMBER, 1959.

E. TABERNER,
Town Clerk.

BOROUGH OF
WILLESDEN.

Applications are invited for the appointment in the Building Works Section of the Borough Engineer and Surveyor's Department of INCENTIVES OFFICER. Salary within Grade A.P.T. I (£610-£765 p.a.) plus London Weighting, maximum £30 p.a.

Candidates should have had experience in Bonus Surveying on new buildings including measurement and agreeing targets.

The Council cannot assist with housing.

Further details and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6, to be returned by 10 a.m. on MONDAY, 31st AUGUST, 1959.

(Signed) R. S. FORSTER,
Town Clerk.

7th August, 1959.

BOROUGH OF
WALTHAMSTOW.

CLERK OF WORKS (TEMPORARY).

Applications are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor) at a salary in accordance with Grade A.P.T. II (£765 to £880 per annum, exclusive of London Weighting) with the commencing salary according to experience.

Applicants should have a thorough knowledge of the building trade and be capable of supervising large housing contracts.

Applications, stating age, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon on FRIDAY, 28th AUGUST, 1959, endorsed "Clerk of Works."

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow,
E.17.
6th August, 1959.

COUNTY BOROUGH OF
ROTHERHAM.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the appointment of ASSISTANT BUILDING INSPECTOR in the Office of the Borough Engineer and Surveyor.

The Salary will be in accordance with Grade I of the A.P.T. Division of the National Scales—£610 to £765 per annum.

The appointment will be subject to the Conditions of Service adopted by the Council and based on the National Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Service.

The applicant is to have a sound practical knowledge of building construction and to be competent to carry out the inspection of plans and the administration of the Building Bye-laws.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Scheme.

Applicants must state if they are related to any Member or Officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify the candidate.

Applications endorsed "Assistant Building Inspector," stating age, qualifications and experience, together with copies of three recent testimonials should be received by the undersigned not later than MONDAY, 7th SEPTEMBER, 1959.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.

CITY OF
PORTSMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECTS, Special Grade (£785-£1,070), commencing salary according to experience. Work in the Department includes New Civic Offices, Technical College, Schools, Swimming Baths, Multi-Storey Flats, Old People's Homes, etc.

(b) ASSISTANT QUANTITY SURVEYOR, Special Grade (£785-£1,070), commencing salary according to experience.

For (a) and (b) the Council will consider the provision of housing accommodation at an economic rent in suitable cases.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765), commencing salary according to experience.

Applicants for (a) must be Associate Members of the R.I.B.A., for (b) must be Associate Members of the R.I.C.S., and for (c) must be Student Members of the R.I.B.A.

Applications, with full details and names of two referees, must be delivered to the City Architect, 1 Western-parade, Portsmouth, not later than MONDAY, 7th SEPTEMBER, 1959.

Canvassing will disqualify.

V. BLANCHARD,
Town Clerk.

RUISLIP-
NORTHWOOD U.D.C.

PROPERTY MAINTENANCE FOREMAN.

Applications are invited for the above post in the Engineer and Surveyor's Department. Salary scale £680-£745 (including London "weighting"). Subject to National Scheme for Miscellaneous Classes of Officers and L.G. Superannuation Acts. 5-day week. 44-hour week.

Application forms obtainable from Engineer and Surveyor, to be returned by 7th SEPTEMBER, 1959.

EDWARD S. SAYWELL,
Clerk of the Council.

Council Offices,
Northwood,
Middx.

COUNTY BOROUGH OF
WEST BROMWICH.

SENIOR CLERK OF WORKS.

Applications are invited for the appointment of a SENIOR CLERK OF WORKS, salary A.P.T. II (£765-£880).

Applicants should be experienced in the supervision of all types of buildings including housing and schools. The appointment will be superannuable and subject to a medical examination.

Applications giving details of age, qualifications and experience and the names of two referees should be addressed to my office on or before SATURDAY the 29th AUGUST, 1959.

W. H. GREENWOOD,
Borough Surveyor.

Town Hall,
West Bromwich.

COUNTY BOROUGH OF
SMETHWICK.

BUILDING AND MAINTENANCE DEPARTMENT.

ESTIMATOR AND DEPUTY MANAGER.

Applications are invited from suitably qualified persons, who must have had a wide experience in supervising and estimating for new works and repairs to Public Buildings, Schools and House Property.

The salary will be on the scale A.P.T. III (£880-£1,065 p.a.) commencing at a stage appropriate to qualifications and experience. The appointment is subject to the N.J.C. Scheme of Conditions of Service, to the Local Government Superannuation Acts, and to the passing of a Medical Examination.

Applications stating age, qualifications, details of experience and names of two referees, should be addressed to the Manager, Building and Maintenance Department, Rolfe-street, Smethwick, 40, Staffs., to reach him not later than 31st AUGUST, 1959.

E. L. TWYCROSS,
Town Clerk.

EBBW VALE URBAN
DISTRICT COUNCIL.

APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.

Applications are invited from Registered Architects, preferably Corporate Members of the R.I.B.A., for the above appointment in the Architect's Department.

The salary will be in accordance with the Special Grade, £785-£1,070, commencing at a point within the grade in accordance with the experience of the successful applicant.

The person appointed will be engaged mainly upon duties in connection with the scheme for the development of the new Civic Centre for a minimum period of three years.

The appointment will be subject to three months' notice in writing on either side and to the successful candidate passing a medical examination.

The Council will provide housing accommodation if required.

Further details and forms of application may be obtained from the undersigned, and forms of application must be returned to us to reach him not later than the 27th AUGUST, 1959.

HOWARD J. WILLIAMS,
Clerk of the Council.

Council Offices,
Ebbw Vale,
Mon.
31th August, 1959.

BOROUGH OF
ROWLEY REGIS.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointment in the Building Department at a salary in accordance with Grade A.P.T. II (£765-£880 in four increments) according to qualifications and experience.

Applicants must be experienced in preparing estimates, bills of quantities, checking interim and final accounts.

Applications, stating age, qualifications and experience, together with two recent testimonials, should be sent to the undersigned not later than FRIDAY, the 28th AUGUST, 1959.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill,
Staffs.
August, 1959.

COUNTY BOROUGH OF NORTHAMPTON.

SENIOR ASSISTANT ARCHITECTS—A.P.T. IV (£1,065-£1,220).

Applications are invited for two responsible appointments in (a) Education and General Section which has an interesting programme of new schools and municipal buildings and (b) Housing Section: the Council's current programme includes multi-storey flats in redevelopment schemes.

Full particulars and application forms, returnable by 4th SEPTEMBER, from Borough Architect, Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

COUNTY BOROUGH OF READING

BUILDING DEPARTMENT.

ESTIMATOR/SURVEYOR

Applications are invited from candidates suitably qualified for the above appointment. Candidates should have a sound knowledge of costing, estimating, taking off quantities, and the calculation of bonus targets. Salary range, Special Grade (£785-£1,070 p.a.), according to qualifications and experience. Experience in Local Government will be an advantage, but not essential. The post is a permanent one, and appointment subject to N.J.C. Conditions. Housing accommodation will be considered. Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be addressed to The Building Manager, Building Department, 15 Basingstoke-road, Reading, not later than FRIDAY, 4th SEPTEMBER next.

G. F. DARLOW,
Town Clerk.

Town Hall,
Reading.

CITY OF WINCHESTER.

Applications are invited for the post of ARCHITECTURAL ASSISTANT in the City Engineer's office (C. C. Steptoe, A.R.I.B.A., Chief Assistant Architect). It is essential that the applicant should be a neat and accurate draughtsman and have had previous experience in an architect's office and have passed the Intermediate examination of the R.I.B.A. Salary, according to experience, will be within Grade I of the National Scales, and the appointment is subject to the Local Government Superannuation Act.

Applications, stating age and details of experience, together with the names and addresses of two referees, should be addressed to the City Engineer, Guildhall, Winchester, and should reach his office not later than MONDAY, 7th SEPTEMBER, 1959.

Canvassing, either directly or indirectly, will disqualify.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
11th August, 1959

BIRMINGHAM TAME AND REA DISTRICT DRAINAGE BOARD.

ENGINEER'S STAFF—ARCHITECTURAL POSTS

Applications are invited for the undermentioned appointments on the staff of the Engineer to the Board, Rookery Park, Erdington, Birmingham 24, and in each case the post is subject to one month's notice on either side, the passing of a medical examination and the provisions of the Local Government Superannuation Acts. There is a possibility of housing being made available. Previous local authority experience is not necessary.

ARCHITECTURAL ASSISTANT

Permanent post at a commencing salary within A.P.T. Grade III (£880 x £35 x £40 x £35(2) x £40—£1,065). Intermediate R.I.B.A. examination diploma as a minimum qualification and applicants must be capable architectural draughtsmen with a sound knowledge of building construction. Ability to prepare working drawings is essential. Some knowledge of specifications and bills of quantities is desirable.

ARCHITECTURAL DRAUGHTSMAN

Temporary post at a commencing salary within A.P.T. Grade I (£610 x £30(4) x £35 x £765), plus a temporary excess rate of £20 per annum. National Certificate minimum qualification and applicants must be capable and accurate draughtsmen with some knowledge of building construction and land surveying and levelling, and experience of building alteration work would be an advantage.

Applications, accompanied by the names of three referees, specifying the post applied for and giving particulars of age, qualifications and experience, should reach the undersigned not later than MONDAY, 14th SEPTEMBER, 1959.

ARTHUR J. WRIGHT,
Clerk to the Board.

Clerk's Office,
Lombard House,
Great Charles-street,
Birmingham 3.
12th August, 1959.

BOROUGH OF SLOUGH.

TWO ASSISTANT ARCHITECTS Required for housing and redevelopment and general building works. Applicants should have good experience in design and supervision. Knowledge of multi-storey flat construction an advantage. Salary in accordance with the "Special Classes" Grade (£785-£1,070). Must be A.R.I.B.A. HOUSING provided for married candidates.

Applications, giving names of 2 referees, age, qualifications and experience to Borough Engineer, Town Hall, Slough, Bucks., by TUESDAY, 15th SEPTEMBER, 1959.

LONDON ELECTRICITY BOARD.

ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the above position in the Architect's Section of the Construction Branch of the Chief Engineer's Department in Central London.

Applicants should be neat draughtsmen and preferably have had several years' experience in an architect's office.

The conditions of service are in accordance with the National Joint Board agreement and the salary will be within Grade 6 of Schedule "D" (£660-£780 per annum, inclusive of London Allowance).

Application forms obtainable from Personnel Officer, 46 New Broad-street, London, E.C.2, to be returned completed within 14 days of the publication date of this advertisement. Please quote ref.: PER/2721/B.

CORPORATION OF LONDON.

CITY SURVEYOR'S OFFICE.

BUILDING SURVEYORS (2). Salary within range £765-£1,025 according to age and experience, for work including preparation and control of contracts for minor works and maintenance, also schedules of dilapidations. Applicants must have passed at least the Intermediate Examination of the Royal Institute of Chartered Surveyors (Building Sub-Section).

ASSISTANT BUILDING SURVEYORS (2). Salary within range £495-£915 according to age and experience, for work similar to the above. Applicants should be studying for the examinations of the Royal Institution of Chartered Surveyors (Building Sub-Section).

Apply to The City Surveyor, Guildhall, London, E.C.2.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.

(a) ASSISTANT ARCHITECTS. £730 x £25(2) x £30(2) x £35(5) x £40(1)-£1,055, according to age and experience. Applicants must be registered architects having passed requisite examinations. Experience of hospital planning and construction an advantage. Sound knowledge of architectural design, working drawings, surveying and specifications essential.

(b) ARCHITECTURAL ASSISTANTS. Salary scale £545 (at age 21 years or over) x £20(3) x £25(4) x £30(2) to £765. Point of entry according to experience. Inter R.I.B.A. essential.

All appointments superannuable. 5-day week. Apply stating age and experience to Secretary, 150 Augustus-road, Birmingham 15, by 14th SEPTEMBER.

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

PERMANENT STAFF CLERK OF WORKS.

Applications are invited for the appointment of a Permanent CLERK OF WORKS (Building) on the Headquarters staff of the Regional Architect in Newcastle to supervise the erection of buildings at hospitals in Northumberland and the northern portion of County Durham, under the direction of the Regional Architect and private architects employed by the Board. The duties of the post involve an appreciable amount of travelling and the successful applicant will be required to drive his own car, for which he will receive a travelling allowance on a mileage basis.

Applicants for the post must possess a thorough knowledge of the building trade and have had previous experience as a Clerk of Works. They should also have had experience of specialised engineering services. Membership of the Institute of Clerks of Works, or possession of the Clerk of Works Diploma of the Association of Building Technicians would be an advantage.

The salary scale will be £660 x £20(1) x £25(4)-£780, and the conditions of service will be those set out in Whitley Circulars P.T.B.66 and 100.

Applications, stating age, qualifications, previous experience and date when available, together with the names of three architects to whom reference may be made, should be enclosed in an envelope endorsed "Clerk of Works" and must be forwarded to the Secretary to the Board, Benfield-road, Newcastle-upon-Tyne, 6, not later than the 28th AUGUST, 1959.

RADNORSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned PERMANENT APPOINTMENTS in the County Architect's Department:—

(a) Qualified QUANTITY SURVEYOR (must be A.R.I.C.S.). Special Grade £785 to £1,070 per annum. Required for preparation of Bills of Quantities, Estimates and Schemes, and Direct Labour Costing.

(b) ARCHITECTURAL DRAUGHTSMAN. Salary A.P.T. Grade II (£765 to £880). Good drawing board experience essential and candidate should have a knowledge of school and house design and construction. Preference will be given to those holding the Intermediate R.I.B.A.

The appointments will be terminable by one month's notice in writing on either side and will be subject to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, etc., Services. Travelling allowance on County Scale.

Applications stating age, qualifications and experience with the names of two referees must be received by the undersigned not later than 31st AUGUST, 1959.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

OFFICE OF THE COUNTY ARCHITECT.

The Council require SENIOR ARCHITECTS in salary grades A.P.T. IV (£1,065-£1,220) and Special Grade (£785-£1,070) for their extensive and interesting building programme which includes schools, colleges, old people's and children's homes, clinics, ambulance, fire and police stations, and other public buildings. Architects appointed will be employed at the Central Office in Wakefield solely upon capital works and will be expected to handle building projects from sketch plans to completion.

Applications are also invited for the undermentioned posts at the Central Office:—

ARCHITECTURAL STAFF:
(a) JUNIOR ARCHITECTURAL ASSISTANTS. Grade A.P.T. II (£765-£880).
(b) JUNIOR ARCHITECTURAL ASSISTANTS. Grade A.P.T. I (£610-£765).

HEATING ENGINEERS:
(a) SENIOR ASSISTANT HEATING ENGINEER. Grade A.P.T. V (£1,220-£1,375).
(b) ASSISTANT HEATING ENGINEER. Grade A.P.T. III (£880-£1,065).

Applicants for the post (a) must be Associate Members of the Institution of Heating and Ventilating Engineers, and be capable of designing and detailing heating, hot water and ventilation installations.

STRUCTURAL ENGINEERS:
(a) ASSISTANT STRUCTURAL ENGINEER. Special Grade (£785-£1,070) or Grade A.P.T. III (£880-£1,065).
(b) JUNIOR ASSISTANT STRUCTURAL ENGINEER. Grade A.P.T. II (£765-£880).

Applicants for post (a) should be Associate Members of the Institution of Structural Engineers or equivalent, and applicants for post (b) should be competent steelwork or reinforced concrete detailers.

Applications are also invited for the undermentioned posts at DIVISIONAL OFFICES:—

Huddersfield Divisonal Office
ASSISTANT ARCHITECT. Special Grade (£785-£1,070) or Grade A.P.T. III (£880-£1,065).

Applicants should have experience in the maintenance of buildings and of works of minor adaptations and improvements.

Harrogate Divisional Office
JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. I (£610-£765).

Doncaster Divisional Office
(Adwick-le-Street)
JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. I (£610-£765).

Wakefield Divisional Office
ELECTRICAL ENGINEERING INSPECTOR. Grade A.P.T. I (£610-£765).

Candidates must possess the Ordinary National Certificate in Electrical Engineering and have had practical experience in inspecting, supervising and testing electric lighting and power installations, and be able to prepare specifications and drawings for simple maintenance schemes.

Applications to be submitted by the 8th SEPTEMBER, 1959, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

"Bishopsarth,"
Westfield-road,
Wakefield.

BOROUGH OF WEMBLEY.

APPOINTMENT OF TECHNICAL ASSISTANT (BUILDING MAINTENANCE).

Applications are invited for the above established appointment. Salary rising to £795 per annum.

Applicants should be experienced in the construction and maintenance of buildings, the measurement of work, estimating and settlement of accounts.

Applications, disclosing any relationship to a Member or Senior Officer of the Council, giving the names and addresses of three referees, and quoting reference "B" must reach the Borough Engineer and Surveyor, Town Hall, Wembley, by 31st AUGUST, 1959.

Housing accommodation not provided. Canvassing disqualifies.

KENNETH TANSLEY,
Town Clerk.

Town Hall,
Wembley, Middlesex.
7th AUGUST, 1959.

COUNTY BOROUGH OF PRESTON.

APPOINTMENT OF ASSISTANT ARCHITECTS.
(A.P.T. Grade IV-£1,065-£1,220.)
(Special Grade £785-£1,070.)

Applications are invited for the abovementioned appointments in the Borough Surveyor's Department.

Candidates must be Registered Architects and Corporate members of the R.I.B.A. The programme of works is large and varied and appointments afford opportunities for good experience.

The National Scheme of Conditions of Service and Local Superannuation Acts apply, and the successful applicants will be required to pass a medical examination.

Forms of application can be obtained from the undersigned, to whom they must be returned, completed, not later than 14th SEPTEMBER, 1959.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER'S DEPARTMENT.

(Population 110,000. Area 12,400 acres.)

Applications are invited for established posts within the Grades shown:—

A. ENGINEERING ASSISTANT (MAIN DRAINAGE). A.P.T. III (£880-£1,065).

Applicants must have passed the intermediate examination of the Institution of Municipal Engineers, or hold equivalent qualifications. The successful applicant will be engaged on the preparation of Sewer Surveys, Drainage Area Plans and Flood Relief Schemes, etc.

B. DISTRICT BUILDING INSPECTOR, A.P.T. II (£765-£880).

Applicants must have experience in all classes of building work and possess the Building Inspector's Certificate of the Institution of Municipal Engineers. Car allowance on "Essential User Scale" will be paid.

C. ARCHITECTURAL ASSISTANTS, A.P.T. I (£610-£765) and A.P.T. II (£765-£880).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

A London Weighting Allowance of £10-£30 per annum according to age will be paid in addition to the above salaries.

Housing accommodation will be provided in appropriate cases if required by the successful applicant for Post A, and successful candidates will be considered for loans to enable them to purchase houses if necessary.

Saturday mornings are normally free of duty.

Application forms, returnable to the undersigned by 7th SEPTEMBER, 1959, from H. Deryck Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, "Percy House," 7, Little Park-gardens, Enfield, Middlesex.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £895) and ENGINEERS, Grade III (up to £1,135) in:—

(a) STRUCTURAL ENGINEERING DIVISION: Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings and

(b) DISTRICT SURVEYORS' Service: In districts coinciding with one exception, with Metropolitan Borough boundaries. Work mainly outside involving negotiations with Architects, Engineers and Surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

BOROUGH OF COLCHESTER.

APPOINTMENT OF HOUSING DIRECTOR.

Applications are invited for the above appointment. The salary will be in accordance with Grade D (£1,520 rising by £60 (3) and £55 to £1,755 per annum) and the terms and conditions of the Joint Negotiating Committee for Chief Officers of Local Authorities will apply to the post. Car allowance.

Further particulars may be obtained from the undersigned. Closing date 14th SEPTEMBER, 1959.

N. CATCHPOLE,
Town Clerk.

Town Hall,
Colchester.
4th August, 1959.

BRACKNELL DEVELOPMENT CORPORATION

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR. Salary range £765-£880, according to age, qualifications and experience. Applicants must have passed the Inter. R.I.C.S. examination. Final account duties on Housing, Town Centre and Industrial buildings. Superannuation schemes, medical examination. Housing available. Apply by 31st AUGUST, giving age education and qualifications, experience and appointments held (with dates), and names of two referees, to General Manager (Q.S.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

COUNTY BOROUGH OF READING.

Applications invited for the appointment of ASSISTANT ARCHITECTS who have passed Parts I and II, R.I.B.A. Final or Special Final Examination or their equivalent and have had at least five years' experience. Salary range £785 x £40 (3) x £45 (1) x £40 (3)—£1,070 according to experience. Posts permanent and appointment subject to N.J.C. Conditions. Housing accommodation will be considered. Applications, stating age, qualifications and experience, together with names and addresses of two referees to Borough Architect, P.O. Box 17, Town Hall, Reading, not later than "TWO WEEKS after date of this advertisement."

FRIERN BARNET URBAN DISTRICT COUNCIL.

Applications are invited for the following appointment:

SENIOR TECHNICAL ASSISTANT (BUILDING). Special Grade (£785 to £1,070 plus London Weighting). Applicants should be Corporate Members of the Royal Institution of Chartered Surveyors (Building Sub-Division) or possess an equivalent qualification by examination. The duties will consist of the preparation of layouts and supervision of new housing schemes including redevelopment.

The Council are prepared to consider the provision of housing accommodation for this post, if required. The appointment is permanent and the provisions of the Local Government Superannuation Acts and the National Scheme of Conditions of Service will apply.

Applications stating age, experience, qualifications, details of present and previous appointments and the names of two referees to be sent to the Engineer and Surveyor, Town Hall, Friern Barnet, N.11, by TUESDAY, 1st SEPTEMBER, 1959.

EDWARD G. HUBBARD,
Clerk of the Council.

Town Hall,
Friern Barnet, N.11.
7th August, 1959.

UNIVERSITY OF CAMBRIDGE BUILDING SURVEYOR

at R.I.C.S. Final Examination stage Required in the Department of Estate Management for varied and interesting work on University Buildings. Salary, which will be discussed at interview, will be in accordance with age and experience, and the post will offer prospects of promotion to selected candidate after qualifying.

Applications giving details of candidates' education and training should be sent to The Director in Estate Management, 74 Trumpington-street, Cambridge, to reach him by 29th AUGUST, 1959, and should be accompanied by copies of two recent testimonials.

HAMPSHIRE COUNTY COUNCIL.

ASSISTANT ARCHITECT (Special Scale £785-£1,070) Required in the County Architect's Department. Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. The post is pensionable and subject to a satisfactory medical report. Assistance given with removal and other expenses in approved cases.

Application forms (send s.a.e.) returnable by 26th AUGUST from the Clerk of the County Council, The Castle, Winchester.

METROPOLITAN BOROUGH OF GREENWICH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:—

(a) TECHNICAL ASSISTANT, ARCHITECTURAL SECTION.

Salary £815-£1,100 inclusive per annum. (Special Scale.)

Candidates should have made substantial progress in the examination of the Royal Institute of British Architects or the Royal Institute of Chartered Surveyors (Building Section).

Experience in the conversion and improvement of houses and in the survey of properties prior to purchase is essential.

(b) TECHNICAL ASSISTANT —BUILDING ESTIMATOR (Unestablished).

Salary £795-£910 inclusive per annum. (A.P.T. II).

Duties mainly comprise the writing and pricing of specification schedules in connection with the conversion and improvement of requisitioned properties.

Applicants must have a sound knowledge of building works in all trades, be capable of estimating by inspection and measurement of work on site and of analysing prices as between labour, transport and materials. They should be capable of supervising the execution of such work.

Commencing salary in each case in accordance with qualifications and experience.

Forms of application obtainable from the undersigned. Closing date 4th SEPTEMBER.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
30th July, 1959.

BOROUGH OF BEDFORD.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above position in the Architectural Section of the Borough Engineer and Surveyor's Department.

Applications must be A.R.I.B.A. and the salary will be in accordance with the special grade for qualified Architects, £785-£1,070 p.a. commencing at a point commensurate with experience, and qualifications.

Bedford is a rapidly expanding Borough and the department is at present concerned with a large housing programme, design and construction of new Municipal Offices, Multi Storey Flats, etc.

The Council is prepared to assist in the provision of housing and contribute towards the cost of removal expenses.

The appointment is permanent, superannuable, and subject to one month's notice on either side, and the successful applicant will have to pass a medical examination.

Forms of application and particulars of the appointment may be obtained from the undersigned and should be returned not later than 7th SEPTEMBER, 1959.

F. W. DAWKES, B.Sc.(Eng.),
A.M.I.C.E., M.I.Mun.E., A.M.T.P.I,
Borough Engineer and Surveyor.

Newnham House,
Horne Lane,
Bedford.

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade IV.

(b) ASSISTANT ARCHITECT (EDUCATIONAL SECTION), Special Grade.

(c) TOWN PLANNING ASSISTANT, Special Grade.

(d) MAINTENANCE ASSISTANT (to assist with the maintenance of all corporate properties particularly with the issuing and recording of orders under supervision and with checking and filing records of accounts), Miscellaneous Grade III.

The commencing salaries will be fixed within the scope of the grades stated according to qualifications and experience, i.e., A.P.T. Grade IV, £1,065-£1,220, Special Grade £785-£1,070, Miscellaneous Grade III £525-£590. Applicants for (a) must have passed the final examination of the R.I.C.S., for (b) the final examination of the R.I.B.A., for (c) the final examination of the T.P.I., and for (d) a general knowledge of building would be an advantage.

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than TUESDAY, 1st SEPTEMBER, 1959, in envelopes endorsed "Appointment of . . . . ."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
4th August, 1959.

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BRISTOL · CHESTER · GLASGOW

QUANTITY SURVEYING

ASSISTANTS. Grade III Required by Air Ministry in the Provinces. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges from £680 at age 26 rising to £850. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Promotion and pension prospects. Five-day week, three weeks three days' leave a year initially. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write stating age, qualifications and previous appointments including type of work done, to Manager, P.E.105, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Farringdon-street, E.C.4. No original testimonials should be sent. Only applicants selected for interview will be advised.

BOROUGH OF SWINDON.

SENIOR PLANNING ASSISTANT, A.P.T. Special Grade, £785-£1,070.

Applications are invited for the above appointment in the Department of the Borough Surveyor and Planning Officer.

Candidates must have a wide experience in the work of a planning department and have passed the final examination of the Town Planning Institute. The possession of another recognised qualification would be an additional advantage.

The commencing salary will be in accordance with qualifications and experience.

Consideration may be given to an allocation of housing accommodation.

Applications, on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 8th SEPTEMBER, 1959.

CITY OF SHEFFIELD.

PARK HILL FLATS

Applications are invited for the following vacancies in connection with the day to day maintenance and running of the above Flats Scheme.

1 ENGINEERING CRAFTSMAN (Garchey Refuse Disposal System and General).
2 GARCHEY OPERATIVES.
1 PLUMBER.
1 ENGINEERING CRAFTSMAN (ELECTRICIAN); and MATE (semi-skilled).
1 ENGINEERING FITTER (Heating and General).
4 BOILER STOKERS (oil-fired heating).
1. FOREMAN CARETAKER.
2 HANDYMAN—PORTERS.

For particulars apply Vincent M. Hughes, F.A.I., Housing Manager, Cadman-lane, Sheffield, 1.

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

ASSISTANT QUANTITY SURVEYORS/MEASURING SURVEYORS.

Applications are invited for the following appointments in the City Engineer's Department:

(a) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. III or Special Grade, i.e. between £785 and £1,070 per annum, with annual increments. Applicants should have good professional experience and the person appointed will be responsible for the quantity surveying work on individual contracts. Associateship of the R.I.C.S. will be an advantage.

(b) QUANTITY SURVEYING ASSISTANT or MEASURING SURVEYOR. Grade A.P.T. I, i.e. £610 rising by annual increments to £765 per annum. Applicants should have had experience of measuring, estimating, and/or builders' book-keeping, and accounts in the building industry. Opportunities and facilities will be given to a suitable man to widen his experience and qualify as a Quantity Surveyor.

Commencing salary in each case will depend on qualifications and experience.

ASSISTANCE WITH HOUSING MAY BE GIVEN.

Applications are to be made on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, and should be returned to him not later than fourteen days after the appearance of this advertisement.

BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the post of ASSISTANT ARCHITECT, salary range £1,065-£1,220. Applicants must be Corporate Members of the R.I.B.A. Superannuation schemes, medical examination. Housing available. Apply by 2nd SEPTEMBER, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries), and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent post of:

(a) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765).

Candidates should have passed the Intermediate examination of the R.I.B.A.

(b) TECHNICAL ASSISTANT, Miscellaneous Grade V (£650-£715).

Architectural draughtsman, experienced in alterations and repairs.

(c) JUNIOR ARCHITECTURAL ASSISTANT, General Division (£210-£595).

Application forms from the Borough Architect, Civic Centre, Southampton.

Closing date 31st AUGUST, 1959.

CITY OF YORK.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following established posts at a commencing salary according to qualifications and within the grades stated.

(a) SENIOR ASSISTANT ARCHITECT. Special Scale £785 to £1,070 p.a. The applicant should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. examination.

(b) ASSISTANT ARCHITECTS. Grade A.P.T. II/Special £765 to £1,070 p.a. The applicant should have passed the R.I.B.A. intermediate examination. Promotion above £880 p.a. will be on completion of Parts I and II of the R.I.B.A. final examination.

(c) ARCHITECTURAL ASSISTANT. Grade A.P.T. I (£610 to £765 p.a.). The applicant should be a competent Architectural draughtsman and have passed the R.I.B.A. Intermediate examination or equivalent.

(d) SENIOR ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. III (£880 to £1,065 p.a.). The applicant should be an A.R.I.C.S. or A.I.Q.S.

(e) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. II (£765 to £880 p.a.). The applicant should have passed the intermediate examination of the R.I.C.S. or I.Q.S.

Housing accommodation will be made available in respect of appointments (a), (b) and (d) if required.

Further particulars of appointments, and form of application to be returned by 7th SEPTEMBER, 1959, may be obtained from the undersigned.

E. FIRTH, F.R.I.B.A., A.M.T.P.I., City Architect.

8 St. Leonard's-place, York.

CITY OF BIRMINGHAM.

QUANTITY SURVEYORS are required in the City Architect's Department at commencing salaries within the following grades, according to capabilities and experience.

(a) Special Scale, £785-£1,070.
(b) A.P.T. II, £765-£880.
(c) S.C. A.P.T. I, £630-£785.

Applicants should have passed Final R.I.C.S. (Quantities) for posts (a) and Inter R.I.C.S. (Quantities) for posts (b) and (c), or hold equivalent qualifications.

Pension scheme. 5-day week. Medical examination.

Applications, stating age, present position and salary, qualifications, experience and two referees to the undersigned by 4th SEPTEMBER, 1959.

A. G. SHEPPARD FIDLER, City Architect.

Civic Centre, Birmingham, 1.

DEVON COUNTY

COUNCIL require SENIOR ARCHITECT on A.P.T. IV (£1,065-£1,220) SENIOR ARCHITECT on N.J.C. Special Scale (£785-£1,070) and JUNIOR ASSISTANT ON A.P.T. I (£610-£765). Full and interesting programmes of Schools and other County Buildings.

In approved cases, loans for house purchase and removal expenses are available—also lodging allowance for married officers while seeking accommodation.

Particulars and Application Form, returnable by 11th SEPTEMBER, 1959, from County Architect, 97 Heavitree-road, Exeter.

METROPOLITAN BOROUGH OF CAMBERWELL.

ASSISTANT ARCHITECTS. (BOROUGH ARCHITECT'S DEPARTMENT.)

Vacancies for ASSISTANT ARCHITECTS within a salary range of £795 to £1,405. Grade and commencing salary according to qualifications and experience. The work of the Department includes design and construction of public buildings, housing estates, including multi-storey construction.

One appointment is the head of a section responsible for the design and erection of public buildings. The salary for this post is at present £1,170 by four increments of £55 to £1,390 (lettered Grade 'A' of the Chief Officers Scales) but consideration will be given to its re-grading to lettered Grade 'B' (£1,265-£1,485).

Application form from Town Clerk, Town Hall, S.E.5. Closing date 14th SEPTEMBER, 1959.

HUNTINGDONSHIRE.

COUNTY ARCHITECT'S DEPARTMENT.

TECHNICAL ASSISTANT (ELECTRICAL ENGINEER).

Applications are invited for the above appointment on the Special Grade (£785-£1,070) or Grade A.P.T. III (£880-£1,065) according to qualifications, but preference will be given to those holding A.M.I.E.E.

The person appointed will be a member of the Engineering Section of the Department, and his duties will consist of all works connected with electrical installations related to both small and large building projects.

Further details and application forms may be obtained from the County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by FRIDAY, 4th SEPTEMBER, 1959.

A. C. AYLWARD, Clerk of the County Council.

County Buildings, Huntingdon.

BOROUGH OF WESTON-SUPER-MARE.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment from ARCHITECTURAL ASSISTANTS who possess the Intermediate Examination of the R.I.B.A., and have worked for a minimum of one year in an Architect's office.

The salary will be in accordance with A.P.T. Grade I, £610 to £765.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the terms of the National Scheme of Conditions of Service, and to termination by one month's notice on either side.

A Medical Examination will be necessary.

Applications stating age, qualifications, present and previous appointments with Salaries, together with details of experience and the names of two persons to whom reference can be made, should reach the Borough Engineer and Surveyor, Town Hall, Weston-super-Mare, not later than FRIDAY, 28th AUGUST, 1959.

COUNTY BOROUGH OF GATESHEAD.

Applications invited for the following posts in the Borough Surveyor's Department to work under the Chief Architect upon an interesting programme of educational, housing and multi-storey flats and public buildings:—

(a) SENIOR ASSISTANT ARCHITECTS. A.P.T. IV-V (£1,065-£1,375).
(b) ASSISTANT ARCHITECTS. Special, A.P.T. IV (£785-£1,220).
(c) ARCHITECTURAL ASSISTANTS. A.P.T. I-III (£610-£1,065).
(d) SENIOR QUANTITY SURVEYOR. A.P.T. IV-V (£1,065-£1,375).
(e) SENIOR ASSISTANT QUANTITY SURVEYOR. Special, A.P.T. IV (£785-£1,220).
(f) ASSISTANT QUANTITY SURVEYORS. Special Grade (£785-£1,070).
(g) JUNIOR QUANTITY SURVEYOR. A.P.T. II (£765-£880).

Housing accommodation may be available for posts (a), (b), (d), (e) and (f).

Salaries within the above scales, according to qualifications and experience. Local Government experience not essential.

Posts pensionable, subject to medical examination, and one month's notice.

Details and application forms (returnable by 7th SEPTEMBER) from the Borough Surveyor, Swinburne-street, Gateshead.

C. D. JACKSON, Town Clerk.

Town Hall, Gateshead. 13th August, 1959.

CITY OF SHEFFIELD.

APPOINTMENT OF ASSISTANT STRUCTURAL ENGINEER. GRADE S.C.—SALARY £785-£1,070.

Applications are invited from graduates or other suitably qualified persons for the above appointment on the staff of the City Architect, Mr. J. L. Womersley.

Candidates should possess a basic knowledge of the design and construction of all types of building structures and foundation work, and the person appointed will be required to assist the Engineer responsible for all such work carried out by the department, including schools, flats, public and industrial type buildings.

The commencing salary will be at a point within the above scale commensurate with the successful candidate's experience and qualifications.

Applications stating age, qualifications, experience, present and past appointments (with dates and salaries), and the names and addresses of two persons to whom reference may be made, should reach me by MONDAY, 31st AUGUST, 1959.

JOHN HEYS, Town Clerk.

Town Hall, Sheffield, 1.

SURREY COUNTY COUNCIL.

Applications invited for the following appointments:—

1. SPECIAL GRADE (£785-£1,070 p.a. plus £30 p.a. London Allowance).

This grade is particularly suitable for newly qualified Assistants.

ARCHITECTS. Must be A.R.I.B.A. and experienced in design and detailing.

QUANTITY SURVEYORS. Must be Chartered Quantity Surveyors with experience on major contracts, including adjustment of final accounts.

STRUCTURAL ENGINEERS. Must be qualified Civil or Structural Engineer, experienced in design and detailing in steel and/or reinforced concrete.

HEATING AND VENTILATING ENGINEERS. Must be A.M.I.H. and V.E. and experienced in heating and ventilating installations. Preferably experienced in testing boiler efficiencies.

ELECTRICAL ENGINEER. Must be A.M.I.E.E. and experienced in electrical services in buildings.

2. GRADE II (£765-£880 p.a. plus up to £30 p.a. London Allowance, according to age).

ARCHITECTS. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

QUANTITY SURVEYING ASSISTANTS. Preference given those who have passed Inter. R.I.C.S.

HEATING ENGINEERING ASSISTANT. Should hold National Certificate and be experienced in layout and design of heating and h.w. services in buildings.

ELECTRICAL ENGINEERING ASSISTANT. Must have H.N.C. or have passed Sect. 'A' of I.E.E.

BUILDING SURVEYORS. Preference given those who have passed Inter. R.I.C.S. (building Sub-Div.). Capable drafting specifications in all trades, preparation schedules of dilaps., detailed estimates for general maintenance works and surveys of properties.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston as soon as possible.

COUNTY BOROUGH OF BLACKPOOL.

Applications (to be received by 9th SEPTEMBER) are invited for the following posts in the Borough Surveyor's Department:—

(a) CHIEF ASSISTANT QUANTITY SURVEYOR. A.P.T. V (£1,220-£1,375).
(b) PRINCIPAL ASSISTANT ARCHITECTS. A.P.T. IV (£1,065-£1,220).
(c) ASSISTANT ARCHITECTS. A.P.T. Special (£785-£1,070).
(d) ARCHITECTURAL ASSISTANTS. A.P.T. I (£610-£765) or II (£765-£880).
(e) QUANTITY SURVEYING ASSISTANT. A.P.T. II (£765-£880).
(f) DRAUGHTSMAN. Miscellaneous III (£525-£590).

Application forms and particulars from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Buildings, Blackpool.

CITY OF LIVERPOOL.

CITY BUILDING SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ASSISTANT (Surveying). Commencing salary up to £670 per annum, according to experience, increasing to £765 per annum (A.P.T. I).

Applicants must possess the Intermediate Certificate of the Royal Institution of Chartered Surveyors (Sub-Division III—Building) or equivalent qualification or the Higher National Certificate in Building. The duties are the examination of factories and other buildings with respect to the provision of means of escape in case of fire.

Application form from the City Building Surveyor, Municipal Buildings, Dale-street, Liverpool, 2.

The appointment is superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER, Town Clerk.

(J.5795.)

MANCHESTER CORPORATION.

CITY ARCHITECT'S OFFICE.

DEPUTY CHIEF STRUCTURAL ENGINEER.

Vacancy for DEPUTY CHIEF STRUCTURAL ENGINEER in the A.P.T. Scale IV, £1,065 to £1,220. Candidates must be an A.M.I.Struct.E., or A.M.I.C.E., and have had at least five years' design experience since becoming an associate member. Should also have a sound knowledge of design in reinforced concrete, steelwork and structural timber work, together with an adequate knowledge of current bye-laws and codes of practice. Housing accommodation may be provided for a limited period. Removal expenses. Application forms from City Architect, Town Hall, Manchester 2, returnable by 4th SEPTEMBER, 1959.

(Continued on Page 109)

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the flooring with a really tough difference!

ELTEX Armoured Paving Tiles are made exclusively for Industrial use and incorporate a special metallic aggregate enabling the tiles to withstand impact and trucking. A dense surface keeps out factory dirt.

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White Line Unit Tiles can be supplied and laid to outline traffic aisles, gangways, material bays, etc.

ELTEX Armoured Paving Tiles have stood the test of time and repeat orders are received regularly from many important Industrial Organisations which have found the tiles highly satisfactory.

These are just some of the reasons why ELTEX Tiles have been preferred by Factory Maintenance Engineers for over twenty-five years.

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48 HOUR DELIVERY SERVICE IN UNITED KINGDOM

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INDUSTRIAL FLOORING SPECIALISTS
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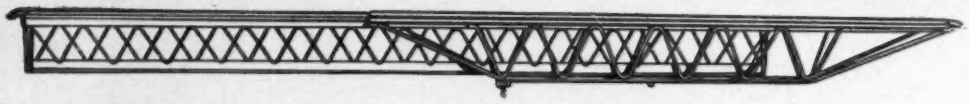
TODAY'S LOWEST COST

The DSL 18 'Baby' Floor Centre is ideal for spans from 6' 2" to 10' 2". Weight 51 lbs.

FLOOR CENTRES!



This is the DSL 42 'Junior' Model for spans from 9' 11" to 15' 5". Weight 99 lbs.

With these five star features

- Quickly erected and stripped.
- Intermediate vertical supports eliminated.
- Easy to handle, to transport, to store and to keep clean.
- Lightweight construction, using high quality steels.
- Maximum strength and safety.

You can depend on

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209 WALSALL ROAD, PERRY BARR, BIRMINGHAM, 22b. *Telephone: Birchfields 6021 (5 lines)*
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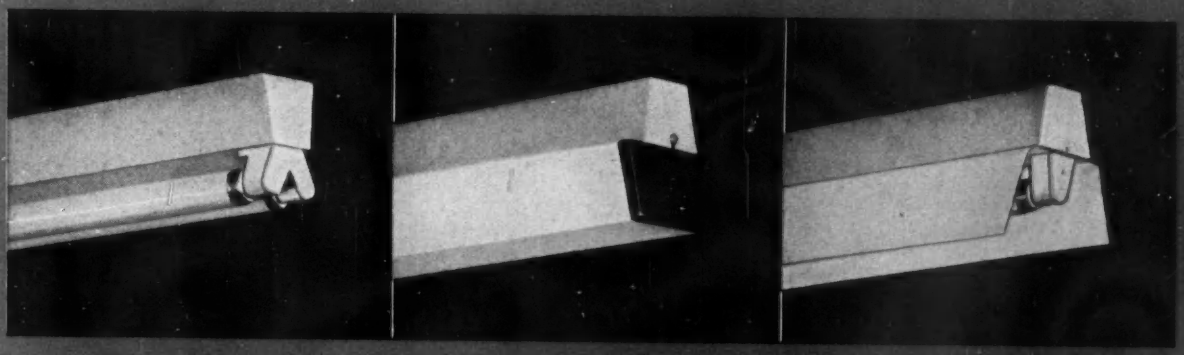
Branches at: Glasgow, Stockton-on-Tees, Liverpool, Swansea, Exeter, Dublin, Belfast and in Australia.

a new range of inexpensive industrial and commercial fittings

Here is G.E.C. reliability at budget prices. This new Paragon range includes the popular Osram 1 x 80w pack at £4.19.8. All patterns are cartoned complete with Osram guaranteed warm white tubes, and available one or two light.



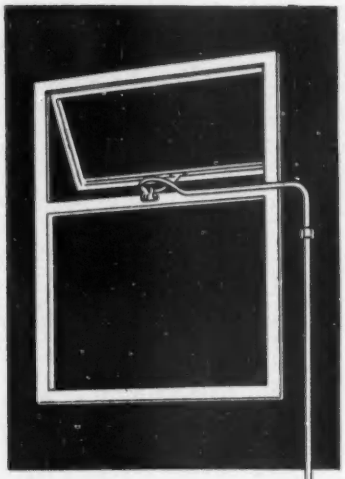
paragon

ECONOMY RANGE OF FLUORESCENT LIGHTING FITTINGS *including the* Osram BOW PACKS

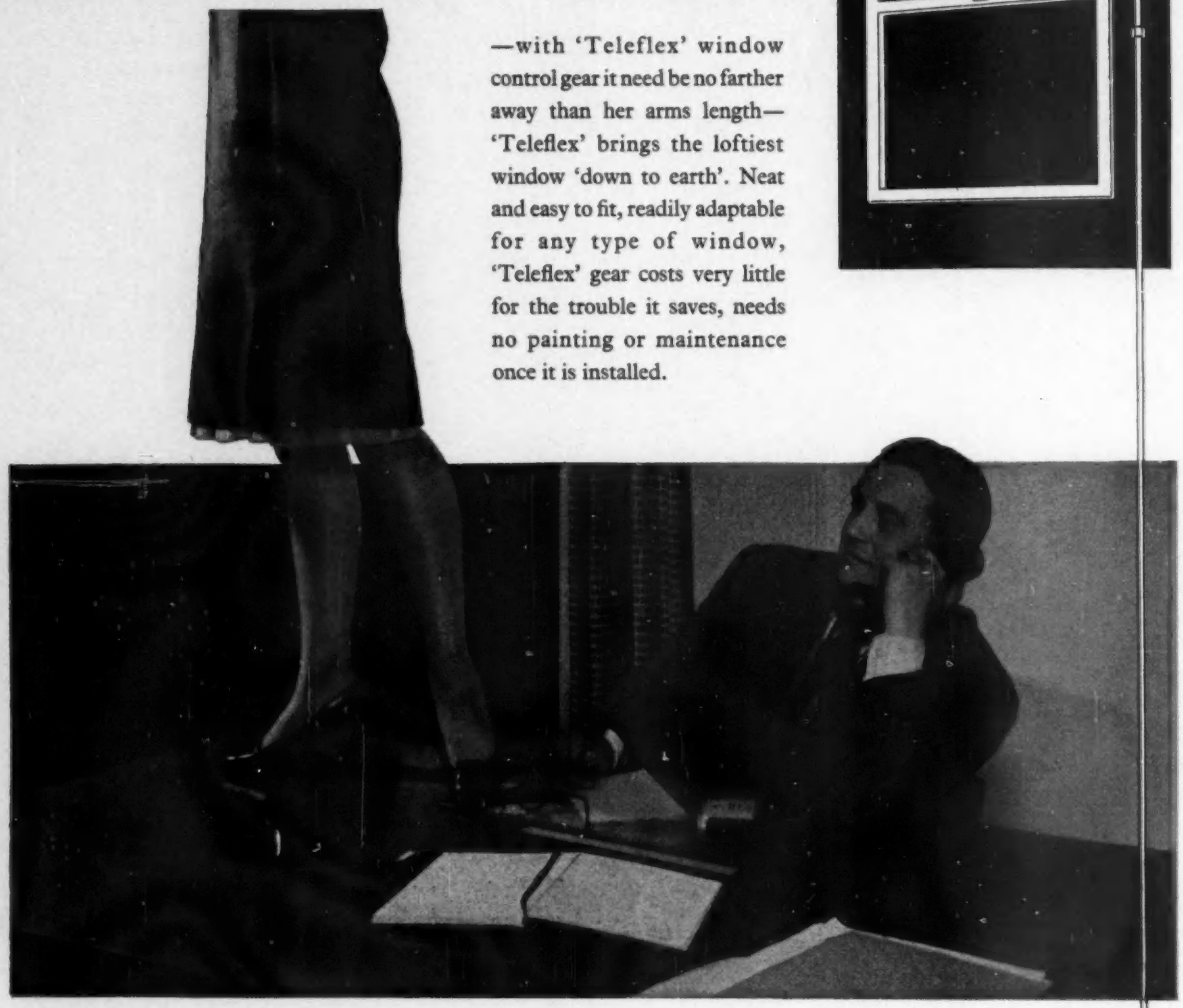
G.E.C.
LIGHTING DIVISION

THE GENERAL ELECTRIC CO. LTD · MAGNET HOUSE · KINGSWAY · LONDON · WC2

To what lengths must a girl go to open a window



—with 'Teleflex' window control gear it need be no farther away than her arms length—'Teleflex' brings the loftiest window 'down to earth'. Neat and easy to fit, readily adaptable for any type of window, 'Teleflex' gear costs very little for the trouble it saves, needs no painting or maintenance once it is installed.



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PLEASE TELL ME—WITHOUT OBLIGATION—HOW 'TELEFLEX' CAN BRING ME DOWN TO EARTH ON WINDOW CONTROL

Name.....

Company.....

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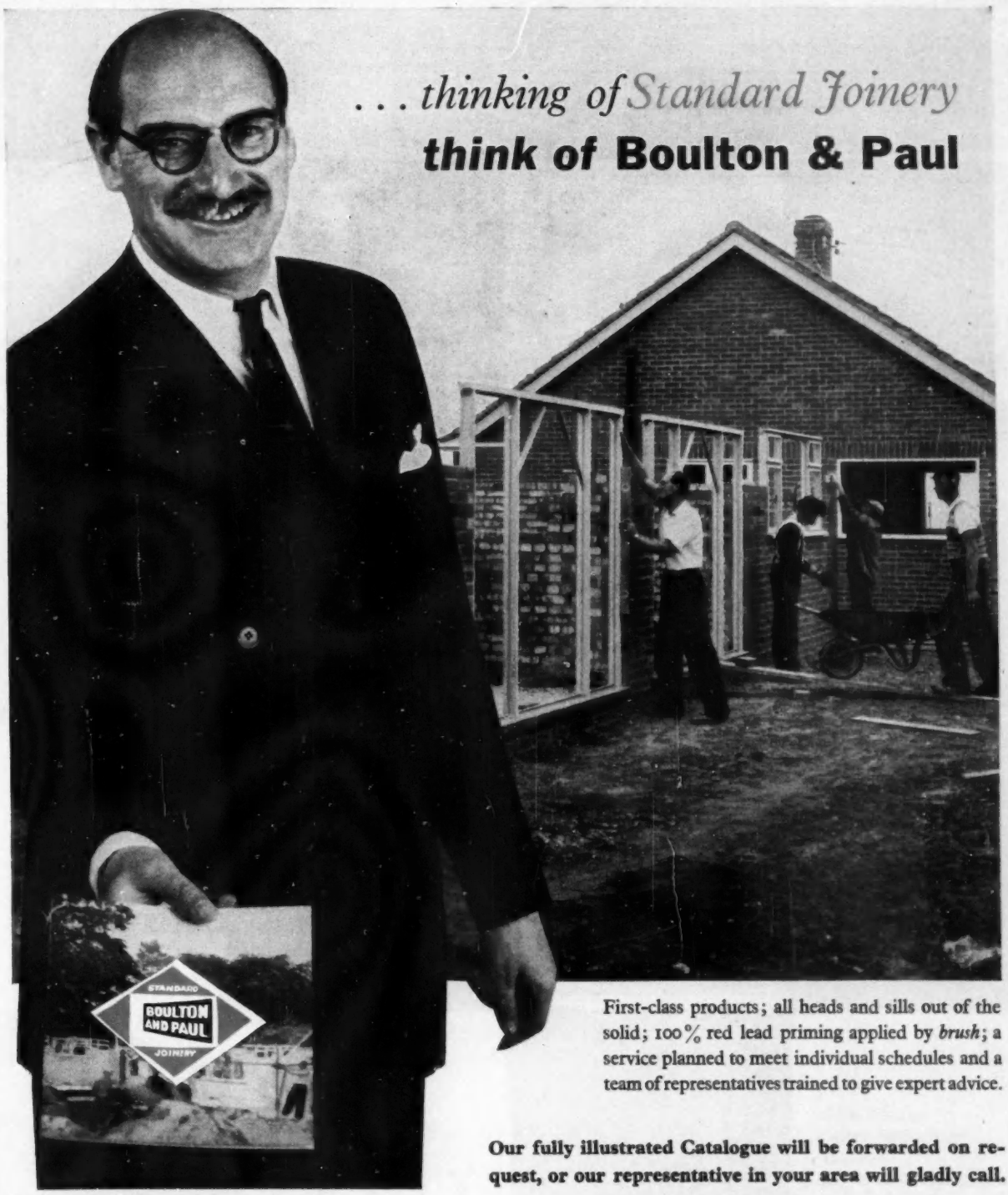
WE HAVE AN EXHIBIT AT THE BUILDING CENTRE 26 STORE STREET W.C.1

See our permanent exhibit at the Building Centre, 26 Store St. London WC1

P 3298



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First-class products; all heads and sills out of the solid; 100% red lead priming applied by *brush*; a service planned to meet individual schedules and a team of representatives trained to give expert advice.

Our fully illustrated Catalogue will be forwarded on request, or our representative in your area will gladly call.

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AP/J34

MONSANTO HOUSE
VICTORIA STREET
Architects:
Sir John Burnet,
Tait & Partners

BOWATER HOUSE
KNIGHTSBRIDGE
Architects:
Guy Morgan & Partners

LYNTON HOUSE
TAVISTOCK SQUARE
Architect:
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LINCOLN'S INN FIELDS
Architects:
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Architects:
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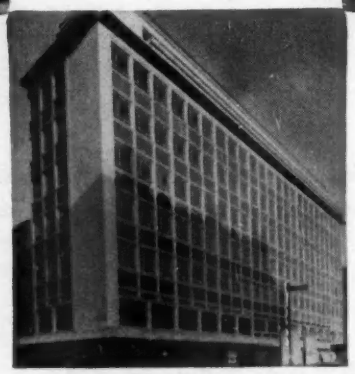
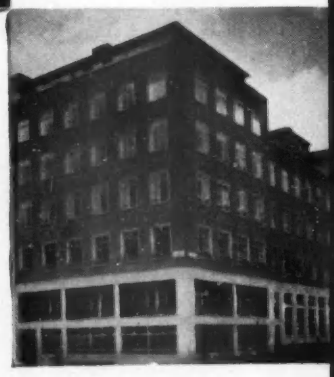
BISHOP HOUSE
HIGH HOLBORN
Architects:
Trehearne & Norman,
Preston & Partners

VOGUE HOUSE
HANOVER SQUARE
Architects:
Yates, Cook & Darbyshire

WINGATE HOUSE
SHAFTESBURY AVENUE
Architects:
Sir John Burnet,
Tait & Partners



55-56 ST. JAMES'S STREET
Architects:
Lewis Solomon, Son & Joseph



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EX-SERVICEMEN'S CLUB
SEYMOUR STREET
Architect:
Alister Macdonald

PENBERTHYS LTD
OXFORD STREET
Architects:
G. Edmund Wilford & Son

THE BIBLE COLLEGE
MARYLEBONE ROAD
Architects:
Clifford Culpin & Partner

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Architects:
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129 KINGSWAY
Architects:
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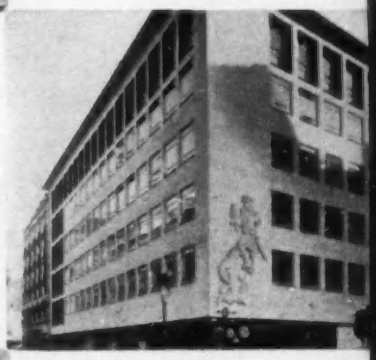
QUAGLINO'S
JERMYN STREET
Architects:
T. P. Bennett & Son



12-18 ALBERT EMBANKMENT
Architect:
Leslie C. Norton

London beyond the City builds with . . .

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Polyethylene gutters and down piping that will not corrode . . . tough and rigid effluent piping . . . lightweight mesh for ventilation panels.

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QUANTITY SURVEYING.

An ASSISTANT QUANTITY SURVEYOR is required by the West Midlands Division Coal Board at Divisional Headquarters, Himley Hall, Dudley. Applicants should preferably have passed the Intermediate examination of the R.I.C.S.

Salary within the scale £595-£710.

Applications, quoting BL, on forms obtainable from the Divisional Chief Staff Officer, National Coal Board, Himley Hall, Dudley—to be returned by 3rd SEPTEMBER.

SURREY EDUCATION COMMITTEE.

BRICKWORK INSTRUCTOR required in September for practical building course at Monument Hill County Secondary School, Woking. Applications to the Divisional Education Office, 9 Heathside-road, Woking.

SHEFFIELD REGIONAL HOSPITAL BOARD.

Applications are invited for the following posts in the Architectural Division of the Board's Headquarters Staff:—

SENIOR ASSISTANT QUANTITY SURVEYOR. Candidates must hold Corporate Membership of the Royal Institution of Chartered Surveyors. Commencing salary £1,050 x £30(3) x £35(3)-£1,245 per annum.

Two ASSISTANT ARCHITECTS. Candidates must be Registered Architects and have passed the requisite examinations. Salary according to age and experience within the scale £730-£1,055 per annum.

Appointment is subject to the Whitley Council terms and conditions of service, to the National Health Service (Superannuation) Regulations, and to one month's notice on either side. Applications, together with the names of three referees, should be sent to the Secretary to the Board, Fulwood House, Old Fulwood-road, Sheffield 10, not later than the 11th SEPTEMBER, 1959.

COUNTY BOROUGH OF WARRINGTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned permanent appointments:

(1) PRINCIPAL ENGINEERING ASSISTANT, within Grade IV (£1,065 rising to £1,220 per annum).

(2) HIGHWAYS ASSISTANT, within Special Scale (£785 rising to £1,070 per annum), with Car Allowance.

(3) ENGINEERING ASSISTANT, within Special Scale (£785 rising to £1,070 per annum).

(4) PRINCIPAL ARCHITECTURAL ASSISTANT, within Grade IV (£1,065 rising to £1,220 per annum).

(5) ARCHITECTURAL ASSISTANT, within Special Scale (£785 rising to £1,070 per annum).

(6) ARCHITECTURAL ASSISTANT, within Grade II (£765 rising to £880 per annum).

Candidates for Appointments (1), (2) and (3) must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, for Appointments (4) and (5) an Associate of the Royal Institute of British Architects, and for Appointment (6) have passed the Intermediate Examination.

Applicants for the Position of Highways Assistant should have had considerable experience in road and sewer maintenance and construction.

Housing Accommodation will be made available, if required, in respect of Appointments (1), (2), (3), (4) and (5).

The appointments, which are terminable by one month's notice on either side are subject to the conditions of service of the National Joint Council for Local Authorities Administrative, Professional, Technical and Clerical Services and the provisions of the Local Government Officers' Superannuation Act, 1937, the successful candidates (if new entrants to the Council's service) being required to pass a medical examination.

The canvassing of members of the Council, either directly or indirectly, will be a disqualification, and applicants must state whether to their knowledge they are related to any member of the Council, or any co-opted member of a Committee, or any officer of the Council. Failure to do so will disqualify or may lead to dismissal without notice.

No printed form of application is being used. Applications stating age, details of training and experience, qualifications, present and previous appointments (in chronological order) together with copies of three recent testimonials, or the names of three referees, should be forwarded to the undersigned so as to be received not later than 12 o'clock noon on TUESDAY, the 8th day of SEPTEMBER, 1959.

J. Y. HUGHES, M.I.C.E.,
Borough Engineer and Surveyor.

Town Hall,
Warrington.
13th August, 1959.

L.C.C. Requires QUANTITY SURVEYORS.

£850-£1,325. QUANTITY SURVEYING ASSISTANTS, £670 to £895. JUNIOR ASSISTANTS, 85s. 6d. to 29s. 6d. a week. Commencing according to qualifications and experience. Apply Chief Officer, Parks Department, County Hall, S.E.1. (WATerloo 5000, Ext. 8076.) (8801.)

WARWICKSHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

1. DEPUTY GROUP ARCHITECT. Grade A.P.T. IV-V (£1,065-£1,375).

Applicants must be members of the Royal Institute of British Architects and be competent designers and have a good knowledge of modern methods of construction. They must be capable of handling large building projects from sketch plan to completion.

2. SENIOR ASSISTANT ARCHITECTS. Grade A.P.T. III-IV (£880-£1,220).

Applicants must be members of the Royal Institute of British Architects and be competent designers with a good knowledge of modern methods of construction.

3. ASSISTANT ARCHITECTS Special Grade (£785-£1,070).

Applicants must have passed Parts I and II of the R.I.B.A. final or special examinations or their equivalent at one of the recognised schools of architecture. The successful applicants will work in teams on large projects, but opportunity will be given to men with enthusiasm and ability to design and carry out smaller projects under a Group Architect.

4. ASSISTANT HEATING ENGINEER. Grade A.P.T. III (£880-£1,065).

Applicants should have had some years in the design of heating and water supplies.

The commencing salary can be within the grade according to ability and experience. Application forms and other conditions applicable to the appointments can be obtained from G. R. Barnsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.

ARCHITECT'S DEPARTMENT, SALOP COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the following posts:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade IV (£1,065-£1,220 p.a.).

(b) ASSISTANT ARCHITECTS, Special Grade (£785-£1,070 p.a.), commencing point according to ability and experience.

N.J.C. Conditions. A disturbance allowance or weekly separation allowance may be paid to married men taking up these appointments. Conditions of service and application forms obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 9th SEPTEMBER, 1959.

LONDON COUNTY COUNCIL.

SURVEYING ASSISTANTS required for maintenance of church schools. Must be capable of preparing specifications, supervising works and dealing with correspondence. Qualifications of Inter-R.I.C.S. standard desirable, but not essential. Up to £895.

Application form, returnable by 5th SEPTEMBER, from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/72/59, County Hall, S.E.1. (1745.)

NATIONAL COAL BOARD.

NORTH EASTERN DIVISION.

SENIOR HOUSING ASSISTANT required in No. 8 (Castleford) Area. Experience (preferably in mining district) of management, administration and maintenance by direct and indirect labour of all types of house property and knowledge of Town and Country Planning, Rent Restriction and Housing Acts, the effects of mining subsidence and repair of consequential damage desirable. Recognised professional qualification essential. Salary £750 to £1,150.

Apply giving full details to Area Staff Manager, No. 8 Area, P.O. Box 13, Allerton Bywater, Castleford, Yorks, by 31st AUGUST.

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

SENIOR BUILDING INSPECTOR, Grade A.P.T. I (£610-£765).

TOWN PLANNING ASSISTANT, Special Grade (£785-£1,070).

Applications are invited for the above appointments.

Applications stating age, education, training, qualifications, present and past appointments (with dates and salaries) and experience together with the names and addresses of two referees to whom reference can be made are to be forwarded to the undersigned on or before the 29th August, 1959.

RCHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

ARCHITECTS.

Architects of progressive outlook and interested in contemporary design in the hospital field are invited to apply for the following posts.

(a) PRINCIPAL ASSISTANT ARCHITECT. Scale II, Salary £1,195-£1,420 p.a. (temporary appointment).

(b) ASSISTANT ARCHITECT. Salary in the scale £730-£1,055 (permanent appointment).

Both posts are in the Regional Architect's office, (a) being mainly concerned with a large extension to Borocourt Mental Deficiency Hospital and (b) with general hospital development. Further details may be obtained from the Regional Architect.

Applications, stating the post applied for, and quoting the names of two referees, should be received by the Secretary, Oxford Regional Hospital Board, 43 Banbury-road, Oxford, by 19th SEPTEMBER, 1959.

BOROUGH OF ROWLEY REGIS.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified persons for the above appointment in the Building Department, at a salary within A.P.T. Special Grade (£780-£1,070).

Applicants should be experienced in housing and other architectural works normally undertaken by a Local Authority, and experience of a direct labour building organisation would be an advantage.

The appointment will be subject to the provisions of the Council's Conditions of Service and Local Government Superannuation Acts.

HOUSING ACCOMMODATION WILL BE OFFERED, IF REQUIRED.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than MONDAY, the 31st AUGUST, 1959.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill,
Staffs.
August, 1959.

BOROUGH OF SCUNTHORPE.

BOROUGH SURVEYOR'S DEPARTMENT.

Scunthorpe Borough Council have vacancies in the Surveyor's Department for:

2 ASSISTANT ARCHITECTS, Special Grade (£785-£1,070 p.a.).

1 QUANTITY SURVEYING ASSISTANT, A.P.T. I (£710-£765 p.a.).

Housing accommodation is available. Applications giving experience and qualifications, together with names of two referees should be submitted to the Town Clerk, 34 High-street, Scunthorpe, not later than TUESDAY, 1st SEPTEMBER, 1959.

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

BUILDING PROGRAMME 1959-63.

CLERK OF WORKS.

Applications are invited from suitably qualified persons for the above appointment. Applicants must have had considerable experience in supervision of building work and have sound knowledge of reinforced concrete and all trades, including setting out and measuring of work on site. Duties will mainly cover supervision of Students' Residential Halls, Housing, and ancillary works.

Salary grade £610 x £30(4) x £35(3) to £765 per annum. Applications, in triplicate, together with names of two referees, should be sent to Architect and Builders Officer, The College, Keele, Staffs, from whom further particulars may be obtained, within 14 days of publication of this advertisement.

BOROUGH OF WIDNES.

BOROUGH ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS.

(a) Special Grade (£785-£1,070 per annum).

(b) A.P.T. I (£610-£765 per annum).

Applications are invited for the above vacancies. Candidates for (a) should be registered architects with A.R.I.B.A. qualifications. Housing accommodation available.

Candidates for (b) should have passed the Intermediate R.I.B.A. Examination. N.J.C. Conditions. Superannuation scheme. 5-day week. Interesting programme of work on Housing, Schools and Public Buildings. Applications, giving two referees to Borough Architect, Brendan House, Widnes-road, Widnes, by 7th SEPTEMBER, 1959. Canvassing disqualifies.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
15th August, 1959.

EAST SUFFOLK COUNTY COUNCIL.

VACANCIES FOR ARCHITECTS AND ASSISTANTS.

Vacancies exist in the County Architect's Department for:—

(a) ARCHITECTS on A.P.T. Grade IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANTS on A.P.T. Grade II (£765-£880).

Applicants for (a) must be qualified Architects with good general experience in design and construction, capable of taking charge of large projects with the minimum of supervision.

Applicants for (b) must be good draughtsmen of R.I.B.A. intermediate standard, who are capable of producing accurate working drawings and specifications, to work as assistants to senior architects.

The posts advertised offer interesting and responsible work in connection with the Council's extensive programme of school and other building.

The starting salary in each case will be fixed according to qualifications and experience; removal expenses will be paid in approved cases. The appointments are subject to the provisions of the Superannuation Acts and the selected candidates will be required to pass a medical examination.

Applications stating age, qualifications, experience and present employment, together with copies of two recent testimonials, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, by TUESDAY, the 15th SEPTEMBER, 1959.

OVERSEAS PUBLIC APPOINTMENTS

QUANTITY SURVEYOR'S ASSISTANTS (COSTING) (A) and (QUANTITIES) (B) required by Kenya Government P.W.D. on contract for tour of 36-45 months in first instance.

Commencing salary according to age and experience on scale (including Inducement Pay) £813 rising to £1,341 a year. Gratuity at rate of 13½ per cent. of total substantive salary drawn. Outfit allowance £40. Free passages. Liberal leave on full salary. Candidates for post (A) must have had over 5 years' experience in a builder's office or on building sites under site agents; have a sound knowledge of building construction, estimating and costing and be able to price and analyse bills of quantities. Candidates for post (B) must be students or probationers of R.I.C.S., have had at least 3 years' experience in a Chartered Quantity Surveyor's office and be able to square dimensions, abstract and bill all trades and measure on site under supervision by a Chartered Quantity Surveyor. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/49922/BH for post (A) and M2B/49919/BH for post "B."

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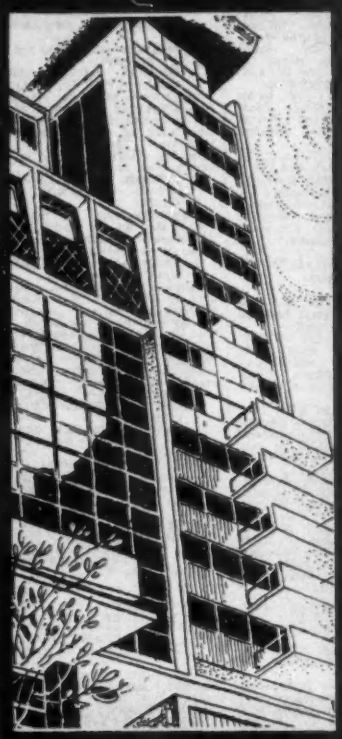

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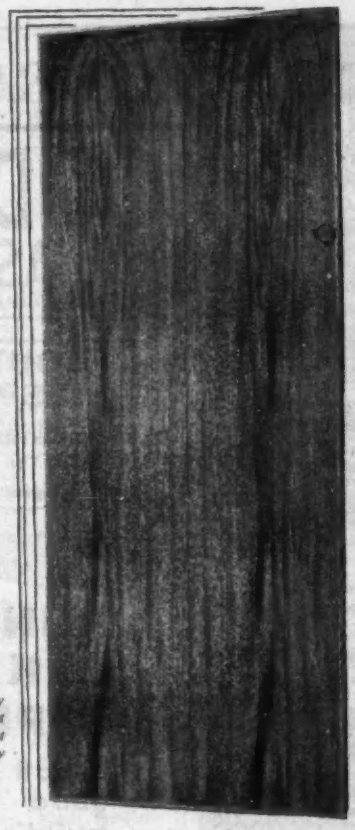

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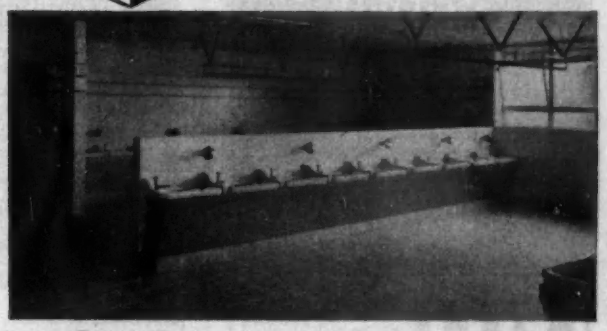

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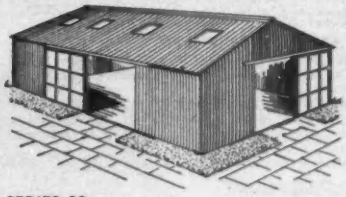

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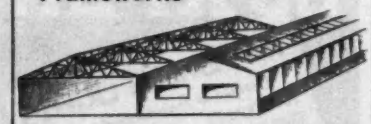
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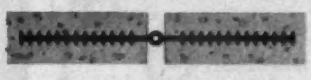

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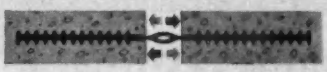

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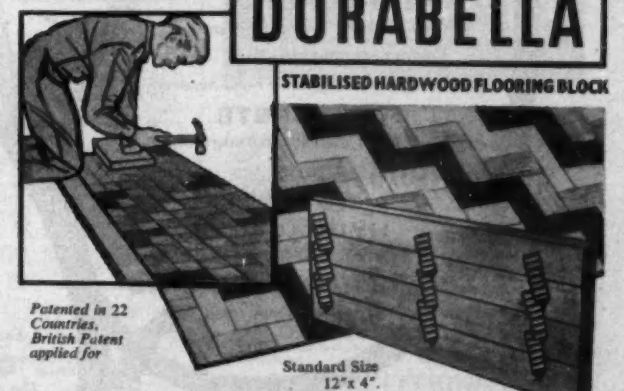

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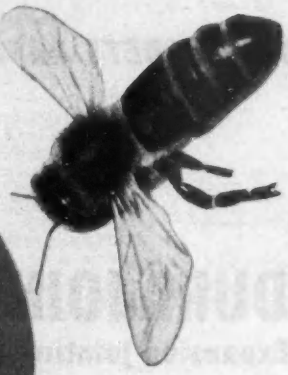

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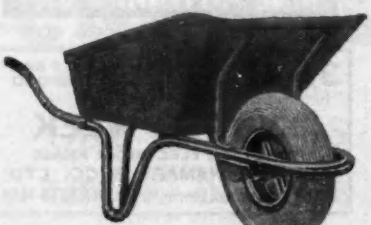

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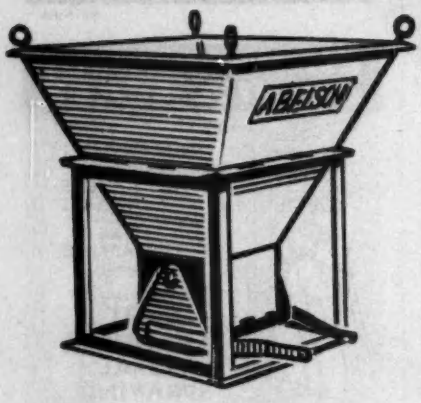

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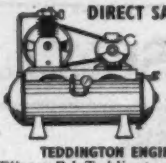

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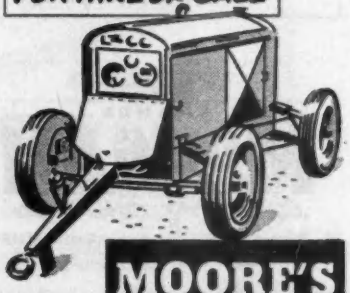

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SENIOR ASSISTANT Required in the Architectural department of a company manufacturing and erecting prefabricated modular buildings. The work covers a wide field of design in timber and steel. Successful applicants must have an enthusiastic and sound approach to new ideas and be willing to accept responsibility for projects throughout all stages.—Write or telephone: MOD-X STRUCTURES Ltd., 20 Lowndes-street, S.W.1. BELgravia 3266-8.

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CROYDON. Experienced and competent ARCHITECTURAL ASSISTANT required.—Write stating fullest particulars to GRAHAM CRUMP AND DENIS CRUMP, F./A.R.I.B.A., Chartered Architects, 43, George-street, Croydon.

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for layouts of roads and housing schemes, etc. Preferably with County or Local Authority experience. Write stating age, experience and salary required to

The Secretary,
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3. ARCHITECTURAL DRAUGHTSMAN for the preparation of finished drawings, with supervision. Commencing salary, about £600 per annum

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72 FLEET-STREET,
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SENIOR ASSISTANT Required for Quantity Surveying section of Midlands firm of Chartered Architects and Civil Engineers. Applicants, preferably A.R.I.C.S., must have experience and initiative to execute schemes from probable cost to final account stages. The work is varied and interesting. The salary offered is commensurate with experience and, if desired, assistance will be given with housing.—Box 2126, "The Builder."

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SENIOR PLUMBING DESIGNER AND DRAUGHTSMAN Required by London Plumbing and Heating Contractors, fully capable of working on own initiative; permanent situation for person willing to make it so. Non-contributory Pension Scheme available; five-day week.—Write stating full details age, experience, salary required.—Box 2179, "The Builder."

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ARCHITECTURAL JUNIOR DRAUGHTSMAN Required for housing and estate development by Sir Lindsay Parkinson & Co., Ltd., 6 Lambeth-road, London, S.E.1. Must be well trained.—Write stating age and salary required.

Building Surveyor/ Draughtsman

required by

Large Building & Civil Engineering Contractors

in the Midlands.

Pension Scheme and Profit Sharing Bonus Scheme in operation.

Reply giving full particulars of previous employment and salary required.

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ARCHITECTURAL DRAUGHTSMAN (Male or Female) Required at once in Architect's Office in Hertford; must be neat and accurate and with some knowledge of building construction.—Please reply giving details of age and experience and salary required to Box 2042, "The Builder."

ARCHITECTURAL DRAUGHTSMAN Required in Surveyor's Department of large London brewery. Quick and accurate draughtsman with round knowledge of building construction essential. State qualifications and salary required to Box 1780, "The Builder."

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QUANTITY SURVEYOR. Experienced ASSISTANT Required for large Contract in N.W. England. Good salary and prospects.—Details of age, experience and salary required to Box 1953, "The Builder."

ASSISTANT QUANTITY SURVEYOR of about final standard Required for taking-off, valuations and final accounts. Must be keen and hard worker; good salary for right man.—Age, experience and present salary, etc., to F. W. ASHALL, F.R.I.C.S., Martin's Bank, Warrington.

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Quantity Surveyor

required by

Large Building & Civil Engineering Contractors

in the Midlands.

Pension Scheme and Profit Sharing Bonus Scheme in operation.

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Box No. 2107 "The Builder."

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QUALIFIED QUANTITY SURVEYOR Required for work on interesting project in Carlisle. The appointment can be permanent but would necessitate the first 9 to 12 months' work in the London office and subsequently on the site in Carlisle.—Reply stating age, experience and salary required to Box 1972, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required for London Office, with knowledge of working-up and site measurement. 5-day week.—Write stating age, experience and salary required, Box 1973, "The Builder."

ASSISTANT QUANTITY SURVEYOR with some experience of Estimating Required for Building and Civil Engineering work; permanent appointment with pension scheme after period on probation.—Apply with full details of age, experience, salary required, to WALTER SMITH (CONTRACTORS), Ltd., Riverhead, Sevenoaks, Kent

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Senior and Junior Quantity Surveyor

required in Quantity Surveying Section of Architects combined practice in Victoria Street, S.W.1. Interesting and varied work offering scope for gaining experience in all aspects of professional practice, particularly in co-operating with allied professions in the building industry. Only those seeking permanent positions need apply.

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ASSISTANT Quantity Surveyor Required to work in the Essex area.—Please apply in writing stating age, experience and salary required to RICHARD COSTAIN Ltd., 2 Palmers-avenue, Grays, Essex.

CIVIL ENGINEERING CONTRACTOR Requires SENIOR QUANTITY SURVEYOR for large dock contract in Middlesbrough, who must be experienced in measurement of earthworks, piling, reinforced and pre-stressed concrete, etc., and in preparation of interim certificates and final accounts for contracts exceeding £750,000.—Write stating details of experience, age and salary required to: THE DEMOLITION AND CONSTRUCTION Co. Ltd., 38-39 Exchange Buildings, Queen-street, Newcastle-on-Tyne. Tel.: Newcastle 29068.

QUANTITY SURVEYORS (Birmingham) have vacancies for TAKERS-OFF and FINAL ACCOUNTS ASSISTANTS. High salary will be paid to experienced and capable applicants, who will have the advantages of Superannuation and five-day week, etc.—Apply stating age, experience, etc., to Box 2123, "The Builder."

QUANTITY SURVEYOR Required by old-established Cotswold Building Company with excellent connections. Successful applicant must be capable of meeting and advising clients, preparing and pricing Bills of Quantity, writing specifications, and agreeing final accounts. Permanent position with car provided and prospects for advancement for really competent person.—Write stating age, experience and salary required to Box 1974, "The Builder."

QUANTITY SURVEYOR, experienced in site measurement, settlement of accounts and preferably with some knowledge of estimating. Required by expanding Building Contractors.—Please write giving details of education, training, experience and qualifications and stating salary required, to HOLTBY & DUDMAN Ltd., Rector's-way, Weston-super-Mare.

JUNIOR QUANTITY SURVEYORS' ASSISTANT Required by Chartered Quantity Surveyors for work at site on Surrey/Sussex border. Recently passed final R.I.C.S. preferred. Good opportunity for advancement. Reply stating age, qualifications, and salary required.—Box 2170, "The Builder."

SENIOR QUANTITY SURVEYOR. Applications are invited from qualified persons (preferably A.R.I.C.S.), fully experienced in Taking-off, final accounts, approximate estimates, etc. The post is superannuable, subject to medical examination. Five-day week in operation.—Applications, stating age, experience, qualifications and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 99 Leman-street, London, E.1.

COMPETENT QUANTITY SURVEYOR Required for Professional Office in Leicester. Good salary. Lunch Vouchers.—Box 992, "The Builder."

ASSISTANT QUANTITY SURVEYOR

required by

THE ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKSHIRE.

For site measuring and quantity surveying duties on building term contracts based on pre-priced schedule of rates for maintenance, minor new works and adaptions.

A recognised trade apprenticeship or pupilage is required or equivalent approved training. At least five years' experience in the duties specified above is preferred and experience with the War Department Schedule of Rates would be an advantage. Possession of the Intermediate R.I.C.S. (Quantities) examination or equivalent qualifications is desirable.

SALARY :—£905 (at age 30 or over)—£1,085.

Contributory Superannuation Scheme. A house or substantial assistance with house purchase will become available for married officers living beyond daily travelling distance.

POSTCARDS for application forms to the Senior Recruitment Officer at above address. Please quote ref. 2346/118.

SENIOR AND JUNIOR QUANTITY SURVEYORS Required for a busy practice in the West Riding of Yorkshire. Non-contributory pension scheme in operation, holiday arrangements honoured.—Apply stating age, qualifications, experience and salary required to Box 1756, "The Builder."

QUANTITY SURVEYOR with thorough experience of final account work Required by London Chartered Quantity Surveyors. Progressive post with good salary.—Apply stating age, experience and salary required to Box 912, "The Builder."

QUANTITY SURVEYOR, preferably aged 30/40, experienced in taking off quantities, preparation of monthly valuations and final accounts, for medium-sized Builders and Contractors, South Manchester. Salary range £1,250 to £1,500 according to experience. Pension scheme after suitable trial period.—Write in confidence with full particulars, to Box 1919, "The Builder."

QUANTITY SURVEYOR Required to take All Trades responsibility for buildings. Huddersfield office.—Box 1781, "The Builder."

NORTH M/CR. BLDR. Requires SENIOR QUANTITY SURVEYOR capable of handling 2 or more substantial contracts at once. Salary £1,000-£1,400 according to age and ability. Also ASSISTANT SURVEYOR, aged 20-30; salary £600-£800; good prospects of advancement.—Box 1782, "The Builder."

EXCELLENT PROSPECTS with Professional Firm: Insurance Loss Adjusters Require A.R.I.C.S. (preferably quantities). Applicants should be under 30 years of age and preferably have some experience in agriculture. The position would entail initial training in London with a view to Branch Managership in the provinces. Pension scheme; medical scheme. The position is highly interesting, dealing with people rather than documents. Car provided. Salary according to experience.—Apply in confidence to C. K. Buckle, ELLIS & BUCKLE Ltd., 44, Leadenhall-street, E.C.3, giving age, education, experience, qualifications, present salary.

QUANTITY SURVEYOR Required by firm of Chartered Quantity Surveyors in Warrington area. Applicants should be able to undertake all Quantity Surveying duties with the minimum supervision, including the preparation of Final Accounts.—Reply, stating age, qualifications, experience and Salary required to Box 1930, "The Builder."

MANCHESTER - LONDON firm Require A.R.I.C.S., for taking-off and Final Accounts duties. Five-day week. Two weeks' holiday this year. This is a small office dealing with varied and interesting Building and Civil Engineering Work.—Box 1896, "The Builder."

COMPETENT QUANTITY SURVEYOR Required for Professional Office in Midlands. Knowledge of W.D. Schedule. House and car provided.—Apply Box 1785, "The Builder."

QUANTITY SURVEYOR'S ASSISTANT Required in Gray's Inn Quantity Surveyor's office for junior taking-off and site measuring. State age, experience and salary required.—Box 1788, "The Builder."

CHARTERED QUANTITY SURVEYOR to manage London office, willing to make visits abroad.—Please reply stating age, details of experience and whether married, to Box 1940, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by building and civil engineering contractors for site measuring, valuations and final account work on variety of contracts in Manchester area. I.Q.S. intermediate standard or equivalent.—Please send details of qualifications, experience and salary required to CONTRACTORS (MANCHESTER) LIMITED, Greg-street, Reddish, Stockport.

QUANTITY SURVEYORS, TAKERS-OFF, WORKERS-UP and SITE MEASURERS, all grades. Leeds or Bradford.—REX PROCTER AND PARTNERS, Chartered Quantity Surveyors, 15 Blenheim-terrace, Leeds 2.

EXPERIENCED QUANTITY SURVEYORS and ASSISTANTS Required for site duties on building and civil engineering contracts. Lincolnshire and Northants areas.—Reply in confidence stating age, previous experience and salary required to Mr. W. S. Whittingham, A. MONK & Co. Ltd., 11a Ironmonger-street, Stamford, Lincs.

ASSISTANT QUANTITY SURVEYOR, R.I.C.S. standard. Required for small office. All types of work including taking-off. Good opportunity for gaining experience. Vacancy at either Cheltenham or Stratford-upon-Avon. — Apply to W. G. ROBATHAN, Chartered Quantity Surveyor, 17 Greenhill-street, Stratford-upon-Avon.

QUANTITY SURVEYORS Required for site measuring and agreement of accounts. Major roadworks. Permanent; pensionable.—Write in confidence stating age, experience, salary required, etc., Secretary, FITZPATRICK & SON (CONTRS.) Ltd., 455 Old Ford-road, Bow, London, E.3.

THE LONDON FERRO-CONCRETE CO. LTD.

Maxted Road, Hemel Hempstead, Herts.

have a vacancy for a

SURVEYOR

wishing to gain experience in Reinforced, Precast and Prestressed Structures. Candidates age 23-33 and possessing H.N.C. in Building should write in confidence giving full details of education and experience to The Senior Surveyor.

SENIOR SURVEYOR

for the head office of

C. J. SIMS LTD.,

Building & Civil Engineering Contractors, 2 Victoria Street, S.W.1.

Age 28–35. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts, including the building up of rates.

Apply in confidence giving age, complete details of training, experience, and salary required.

SENIOR MEASURING SURVEYOR Required by London Firm of Building and Civil Engineering Contractors to take charge of measuring on Company's Air Ministry Term Maintenance Contracts. Must possess first-class and up-to-date knowledge of the War Department Schedule. The position entails considerable responsibility and commensurate salary and bonus will be offered. Car provided.—Apply Box 2073, "The Builder."

CHARTERED QUANTITY SURVEYORS Require SENIOR and JUNIOR MEASURING SURVEYORS, Liverpool office. Five-day week; luncheon vouchers.—Reply giving age, experience and salary required, Box 2074, "The Builder."

MEASURING SURVEYOR Required to deal with interim certificates, variation orders, and final accounts. Facilities for training in professional examinations. Attractive Pension Scheme. Applicant must be able to drive a car. Commencing salary in range £750-£850 per annum.—State age and particulars of past experience to A. E. TOWLER, A.R.I.C.S., Chartered Quantity Surveyor, Manfield Chambers, 117 Fishergate, Preston.

TWO ASSISTANT BUILDING SURVEYORS, age 20-25 years. Required by A. GLENNY & SON, F.R.I.C.S., Chartered Surveyors, 53 East-street, Barking, Essex. About intermediate standard. Work varied and interesting. Candidates should have knowledge of building construction, be neat, capable draughtsmen and able to prepare Specifications and Schedules under supervision.—Write stating age, experience and salary required.

CATESBYS LIMITED

CATESBYS CONTRACTS & EXPORT Ltd., 64 Tottenham Court-road, W.1. Require for their expanding Building Department, a SURVEYOR capable of estimating for and supervising high-class interior alterations, joinery and decorations.—Apply to Building Department Manager, Museum 7777.

BUILDING SURVEYOR of intermediate standard is Required by SLOUGH ESTATES Ltd., for work on their Trading Estates, based at Slough. Experience of dilapidation surveys and building maintenance is desirable.—Please send details of experience, age and salary required to The Architect, SLOUGH ESTATES Ltd., Trading Estate, Slough, Bucks.

BONUS MEASURING SURVEYOR Required by RICHARD COSTAIN LIMITED, minimum of 18 months' experience on building contracts essential, to include measurement of all trades and practical knowledge of weekly labour and plant costs.—Apply stating age and details of experience to PERSONNEL OFFICER, 111 Westminster Bridge-road, London, S.E.1.

YOUNG SURVEYOR, capable of taking off from drawings and specifications of small contracts up to £20,000 Required to assist estimator.—Apply by letter, stating previous experience and salary required to HIGGS & HILL Ltd., Crown Works, South Lambeth-road, London, S.W.8.

SURVEYOR Required for certificate valuation and for measuring, valuing and settling final accounts by medium-size Contractor with wide variety of contracts. Applicant (25-28 years) should have H.N.C. and/or L.I.O.B.—Write giving details of experience, qualifications, age, and salary required, to HAMMOND & MILES Ltd., Scrafton-road Works, Ilford.

CHIEF SURVEYOR Required by a young, rapidly expanding London Company with a new approach to building construction. Only outstanding applicants will be considered for this post with a Company with an international future.—Apply, giving full particulars of career to date, to Box 1792, "The Builder."

MEASURING SURVEYOR Required for Chartered Quantity Surveyor's Branch Office in Harlow New Town. Five-day week. Housing accommodation may possibly be arranged. State age, experience and salary required.—Box 1796, "The Builder."

ASSISTANT BUILDING SURVEYOR Required. Opportunity for young man to widen his experience under the supervision of a Senior Surveyor in an expanding company.—Apply Personnel Manager, FORD & WALTON, LTD., Walton House, Warton-road, E.15.

MEASURING SURVEYOR

required by leading London Terrazzo and Tiling Company for site measuring and final accounts. Permanent position for a keen, confident man between 25 and 35. Pension scheme. Write fully giving age, experience, and salary required.

Box No. 2132 "The Builder."

CHIEF SURVEYOR

required by large Public Company of Estate Developers and Contractors. Head Office Surrey. Must be widely experienced and capable of controlling departments dealing with estimating, valuations, labour and material scheduling, unit costing and bonusing for Housing, Multi-storey flats, etc. Position offered is one of considerable responsibility, is permanent, pensionable, and will command first class salary with ultimate Directorship. Assistance with housing if required. Please write for interview in London, giving comprehensive details of experience and present salary to Chairman, Box 2162 " The Builder."

SENIOR, ASSISTANT and JUNIOR SURVEYORS Required by Northcroft Neighbour & Nicholson, Victoria House, Southampton Row, W.C.1.—Write giving qualifications and experience.

SURVEYOR Required, preferably with some estimating experience, for work mainly in London Area, must be capable and well experienced. Car provided.—Apply with full details of previous experience, salary required and when available to General Manager, FARRANS, LIMITED, 39 Upper Brook-street, London, W.1.

BONUS SURVEYORS Required, experienced in measuring and applying incentive scheme, for building contracts in London.—Write, giving full details of experience, age and salary required, to KIRK & KIRK LIMITED, Atlas Works, Putney, S.W.15.

BUILDING SURVEYORS Required by rapidly expanding Consultant Surveyors' practice. Sound practical experience of preparation of working drawings, specifications and general maintenance work. Capable of running and supervising various sized contracts.—Full particulars to LISSENDENS, 12-13 Grafton-street, London, W.1.

SIR LINDSAY PARKINSON & Co. Ltd., Require SENIOR BUILDING AND CIVIL ENGINEERING SURVEYORS: also ASSISTANT MEASURING SURVEYORS. These positions are permanent, progressive and superannuated.—Write giving full details, to 6 Lambeth-road, S.E.1.

MEASURING SURVEYORS Required, capable of handling contracts from £5,000-£250,000; must be experienced in taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

SURVEYOR Required by Small Works Department of a well-known firm of Contractors with head office in the Westminster area. Applicants should have a thorough knowledge of their job from enquiry to Final Account stage.—Please write in first instance to Box 1958, " The Builder."

T. RIDER & SON Ltd., Require ASSISTANT SURVEYOR/ESTIMATOR for their Branch Establishment at Chislehurst, Kent, with view to training for management of Branch. Sound technical background required, preferably up to C. & G. standard in Q.S. and Estimating. Age 20-25. Must hold Driving Licence. Required to deal with all types of work up to about £10,000. Contributory Pension Scheme. Probationary Period three months. Existing holiday arrangements honoured.—Apply in writing stating age, experience and salary required, to Mr. Wilson, T. RIDER & SON Ltd., 15, High-street, Chislehurst, Kent.

SURVEYORS with estimating experience for small contracts (£10,000) Required by East End Contractor for work in Greater London area. I.O.B. men preferred.—Box 2164, " The Builder."

CHARTERED QUANTITY SURVEYORS have a vacancy for QUALIFIED ASSISTANT in London and vacancies for TAKERS-OFF and MEASURING SURVEYORS on long-term provincial contract. Salary based on age and experience up to £1,250. Holiday arrangements respected.—Apply stating age, experience, and salary required to Box 2169, " The Builder."

SURVEYORS for supervision of contracts up to £10,000 Required by London contractor.—Box 2177, " The Builder."

SURVEYOR Required by City Builder, with experience of site supervision.—Box 1993, " The Builder."

EXPERIENCED SURVEYOR Required by firm of National Contractors in S.W.1 area. A knowledge of surveying from enquiry to final account essential.—Write giving full particulars to Box 1959, " The Builder."

SITE SURVEYOR Required by Chartered Quantity Surveyors in connection with long-term large-scale University development in South Wales. Applicants will be required to measure and agree final accounts, prepare valuations for interim certificates and operate cost control system. Pension and Sick Benefit Schemes in operation.—Please reply, giving experience and salary required to Box 1975, " The Builder."

BUILDERS, SURVEYORS and ESTIMATORS. Applications invited from young Builders' tradesmen or Builders' Clerks who have studied Quantities to City and Guilds standard to fill vacancy in London Office of well-known organisation. Good salary, overtime, and pension scheme.—Box 1976, " The Builder."

BUILDER'S SURVEYOR (£735 to £975 per annum, according to experience). Experience in measuring, materials schedules, essential; knowledge of final billing an advantage. Five-day week. Pension scheme (including Widows and Orphans); medical examination.—Applications, with full details, together with names and addresses of two referees, to undersigned by 7th SEPTEMBER, 1959. B. A. COLLEY, General Manager, City of Birmingham Direct Labour Building Department, 37 Rotton Park-street, Birmingham 16.

COST AND BONUS SURVEYOR Required for site in the London area. Opportunities for planning and work study training. Good salary and pension scheme.—Apply by letter stating age and experience to THE UNIT CONSTRUCTION Co. Ltd., Faggs-road, Feltham, Middlesex.

MAINTENANCE SURVEYOR Required in Surveyor's Department of Guest House Organisation. Office N.W. London; superannuated post. Must be neat draughtsman capable of preparing surveys, specifications, etc.—Reply with full particulars and salary required to Box No. 3421, DUNSTAN & Co. Drayton House, Gordon-street, W.C.1.

SURVEYORS Required. Keen young men for large and expanding Company of Estate Developers. Unlimited prospects. Must be capable of working on own initiative.—Write stating age, experience and salary required, Box 1977, " The Builder."

BUILDER'S SURVEYOR/SUPERVISOR Required by old-established East London Company. Pension and Profit-Sharing Scheme in operation. Good salary for the right man.—Box 2054, " The Builder."

SURVEYOR Required for Architect's Office in East London, to prepare Specifications, supervise alterations and repairs to licensed premises, Check Builder's accounts; ability to prepare plans and simple structural drawings an advantage. No Saturday working; Luncheon Voucher Scheme.—Reply by letter stating date available and salary required to STEWART & HENDRY, F./F.R.I.B.A., A.M.T.P.I., 220 Whitechapel-road, London, E.1.

MEASURING SURVEYOR Required by Chartered Quantity Surveyors, Blackburn.—Box 2118, " The Builder."

BONUS SURVEYOR Required by Old-established Reinforced Concrete Engineers, to implement new Bonus system. Practical man considered, studying I.O.B. or similar course, with some experience of site measuring.—Please write giving details of experience, age and salary required, DIESPEKER & Co. Ltd., Clifton House, Euston-road, N.W.1

COST AND BONUS SURVEYORS Required by HOWARD FARROW Ltd. Wide experience in Incentive Schemes essential.—Applications quoting age and previous experience to Chief Surveyor, Ref. DJB, Russell Parade, Golders Green-road, N.W.11, marked " Confidential."

KEEN YOUNG SURVEYORS Required, age 20-25, for general surveying duties with expanding Company of Estate Developers. Good salary; unlimited prospects.—Write stating age, experience and salary required. Box 2133, " The Builder."

SITE MEASURING AND COSTING SURVEYORS Required for contracts in Lancashire. Local men preferred but travelling men considered. Age between 21-30. Previous site experience essential and knowledge of Standard Methods of Measurement of Civil Engineering and Building Works an advantage. Staff appointment. Pension Scheme. Salary in accordance with qualifications and experience.—Apply giving full details, in confidence, and quoting SM 21, to Box 2134, " The Builder."

BUILDING SURVEYOR Required for medium-sized firm of builders, S.E. London. Must be experienced in measuring sub-contractors, variation orders, preparation of interim valuations and final accounts.—Apply stating age, experience and salary required to Box 915, " The Builder."

SURVEYOR/ESTIMATOR.—A responsible permanent position is offered in surveying/estimating department handling contracts in London area from enquiry to final account. Applicants should have experience in site measuring, preparation of certificate valuations and final accounts, and be capable of estimating under supervision. Excellent opportunity for enthusiastic young man aged 25-30 to progress within the organisation. Holiday this year by arrangement.—Please apply in confidence stating age and previous experience to Box 926, " The Builder."

BUILDING SURVEYOR Required, experienced in supervision of building construction, preparation of building contracts, and administration of payment under contracts. Four figure salary.—Apply, stating age and experience to Box 1760, " The Builder."

SENIOR SURVEYOR AND ESTIMATOR Required by prominent North-East Coast Building Contractors. Applicants should possess a wide experience in the compiling of tenders from bills of quantities and drawings for building work of every description. A salary of £2,000 per annum will be offered to the right man.—Reply stating age and particulars of full experience in confidence to Box 1918, " The Builder."

REINFORCED CONCRETE SPECIALISTS in West London Require experienced SURVEYOR/TAKER-OFF. Pension and Bonus Scheme operates and canteen facilities provided. Holiday arrangements honoured.—Write stating age, experience and salary required to Box 1791, " The Builder."

SENIOR ESTIMATOR/SURVEYOR Required. Must have sound knowledge of building up prices for all types of contracts (generally in London Area).—Write stating fullest details experience, training, age and salary required, GALBRAITH BROS. Ltd., Crayford Bridge, Crayford, Kent.

CHIEF ESTIMATOR SURVEYOR to take charge of Department dealing with estimating (jobs up to £250,000), interim certificates, final accounts and bonusing. Age 30-45, with wide experience of estimating. Permanent and pensionable.—Full details of education, training, experience and approximate salary required to CHARLES S. FOSTER & SONS Ltd., Loughton, Essex.

ASSISTANTS Required for the LAND ACQUISITION section of private housing department. Applications are invited from SURVEYORS with knowledge of town planning procedure and allied matters. Ability to drive essential.—Applications, giving details of experience and qualifications (if any), to GEORGE WIMPEY & CO., LIMITED, 27 Hammersmith-grove, London, W.6. Ref. 758.C.

SURVEYOR Required for small works department, capable of measuring on site or off drawings, billing, ordering and general routine. Some experience of estimating an advantage.—Apply in writing stating age, experience and salary required to M. HOWARD (MITCHAM) Ltd., Wandle House, London-road, Mitcham.

ASSISTANT SURVEYOR/ESTIMATOR

required by progressive firm of Estate Developers and Builders, Cheam, Surrey.

Excellent prospects. Full details and present salary in confidence to

Box No. 2165 " The Builder."

ASSISTANT Required for Eastern Counties office of London Quantity Surveyors to measure up Contracts, prepare interim certificates and final accounts. Good prospects.—Write stating age, experience and salary required.—Box 1954, " The Builder."

ASSISTANT PAINTING MEASURING SURVEYOR Required by well-known contractor for general measuring duties in the London area. Excellent terms and conditions to really keen man.—Write Box TB.957, c/o 191, Gresham House, E.C.2.

ASSISTANT TO SENIOR SURVEYOR for site measurement/taking-off variety of work. Approximately Inter. R.I.C.S. Standard. Chartered Quantity Surveyors, Newbury. Salary £600/£650.—Box 1978, " The Builder."

ASSISTANT in team under Senior Surveyor for taking-off and account settlement in work of varied scope required by Chartered Quantity Surveyors, Oxford. Approximately Inter. R.I.C.S. Standard. Salary £550/£600.—Box 1979, " The Builder."

ASSISTANT SURVEYORS, 20/25, completed National Service, H.N.C. Building or studying therefor. Excellent opportunity for experience with medium-sized contractor in Victoria, S.W.1.—Box 1980, " The Builder."

ASSISTANT SURVEYOR, age 23-25, Required for Building Contractors in London. Experienced in site measuring and preparation of final accounts.—Write stating age, experience and salary required to Box 1981, " The Builder."

ASSISTANT BUILDING SURVEYORS Required. Opportunity for young men to widen their experience under the supervision of Senior Surveyors in an expanding company.—Apply Chief Surveyor, FORD & WALTON Ltd., Walton House, Warton-road, London, E.15.

LONDON CHARTERED QUANTITY SURVEYORS Require ASSISTANT for their Cambridge Office. Account work and taking-off.—Reply stating experience, age and salary required to Box 2086, " The Builder."

ASSISTANT SURVEYOR Required by long-established firm of Building Contractors. Permanency and prospects for the right applicant. Must be competent estimator and capable of undertaking full surveyor's duties respecting medium-sized contracts. Superannuation Scheme operating.—Write stating age, qualifications and salary required to W. S. TRY LIMITED, High-street, Cowley, Uxbridge, Middlesex.

ASSISTANT Required by London Firm of Quantity Surveyors for taking-off, site measuring and final accounts.—Apply stating age, experience and salary required to Box 1799, " The Builder."

ASSISTANT SURVEYOR Required for Taking-off and settlement of final accounts at Winchester office of A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors, 8 Storey's Gate, S.W.1.—Please apply in writing stating experience and salary required.

ASSISTANT SURVEYORS Required for Taking-off and/or site measuring and settlement of final accounts by A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors, 8 Storey's Gate, S.W.1.—Please apply in writing stating experience and salary required.

SURVEYOR'S ASSISTANT Required by Contractor situated in Banstead, Surrey. Applicants must have knowledge of estimating. Apply stating age, experience and salary required.—Box 2115, " The Builder."

SURVEYORS' ASSISTANTS Required, preferably with 2-4 years' experience and with desire to make further progress.—Particulars to Secretary, HIGGS & HILL Ltd., Crown Works, South Lambeth-road, London, S.W.8.

SWINDON, WILTSHIRE: SENIOR ASSISTANT Required for busy branch office of London Quantity Surveyors. Permanent position. Five-day week, overtime extra.—Reply stating age, experience and salary required to Box 2135, "The Builder."

ASSISTANT SURVEYORS Required on building sites, London area. Duties to include costs and bonus.—Apply in writing, TURRIFF CONSTRUCTION CORPORATION Ltd., 11 South Wharf-road, W.2.

ASSISTANT BUILDING SURVEYOR Required to join rapidly expanding Surrey firm of Estate developers and Builders. First-class prospects to ambitious man.—Write stating age, experience and present salary, to Box 2166, "The Builder."

JUNIOR SURVEYOR and COST AND BONUS SURVEYOR Required for large contract on Ayrshire coast, expatriate Scots and other upstanding men should send details of age, qualifications and experience to Box 1962, "The Builder." Existing holiday commitments honoured.

CHARTERED Quantity Surveyors, W.C.2, have vacancy for JUNIOR ASSISTANT with experience in Quantity Surveyor's office of taking-off and site measuring, etc. Also JUNIOR ASSISTANT for working-up.—Reply stating age, education, training, practical experience, salary, etc., Box 1983, "The Builder."

JUNIOR SURVEYOR Required, capable of site measuring variations, sub-contractors' accounts, etc., for small contracts up to £20,000.—Apply by letter stating previous experience and salary required to HIGGS & HILL Ltd., Crown Works, South Lambeth-road, London, S.W.8.

JUNIOR Required by London Firm of Quantity Surveyors for general office duties. Excellent opportunity to learn Profession.—Apply stating age and details of education to Box 1800, "The Builder."

JUNIOR ASSISTANT Required in Chartered Quantity Surveyors' office. Excellent opportunity for learning all branches of the profession. Five-day week.—Box 1801, "The Builder."

JUNIOR Required by C. William O'L Markham and Partners for general office duties, with excellent opportunity to learn profession.—Apply in writing to Grosvenor Gardens House, London, S.W.1, stating age and education.

JUNIOR SURVEYOR for measuring sub-contractor's work. Required by A. T. ROWLEY (LONDON) Ltd., Cambridge Works, Lordship-lane, N.17. (TOT 3603). Applicants must state experience and salary required.

JUNIOR BUILDING SURVEYOR Required by Company Architect for maintenance reports, measured surveys and general building supervision. Salary £600/£850.—Apply in writing to LESLIE WALKER, A.R.I.B.A., Sheen-lane House, 254 Upper Richmond-road West, London, S.W.14.

JUNIOR Required for Surveying and Estimating department of well-known old-established London Builder's office, S.E.1. Excellent prospects.—Apply, stating age, experience and salary to Box 2167, "The Builder."

CIVIL ENGINEERING ASSISTANT

required in Chief Architect's Department to undertake the following work :—

(a) Design and execution of roads and sewers on large scale Estate Developments

(b) Detailed land surveying and levelling

(c) Detailed sewage and effluent works for Industrial Projects.

The post is a progressive one and offers excellent scope for a young and enthusiastic Engineer.

Apply in writing stating qualifications, age, experience and present salary to J. L. Heap, A.R.I.B.A., Chief Architect,

George Calverley & Sons (Contractors) Ltd., Evington Valley Road, Leicester.

The application will be treated in strict confidence.

EXPERIENCED TAKERS-OFF / MEASURING SURVEYORS Required by Chartered Quantity Surveyors for large site contract in South Wales. A.R.I.C.S. preferred.—Write stating age, experience and salary required to Box 2045, "The Builder."

QUALIFIED TAKER-OFF Required by Cameron & Middleton for their London office.—Reply stating age, professional experience and salary required, to 38 Bedford-square, W.C.1.

TAKER-OFF Required, final standard, by Chartered Quantity Surveyors, Cambridge. Luncheon vouchers, good prospects.—Reply giving age, experience, to DAVIS, BELFIELD & EVEREST, 2 Jesus-lane, Cambridge.

TAKERS-OFF, Senior and Junior, Required for varied work.—Apply in writing giving full particulars to V. B. JOHNSON & PARTNERS, Chartered Quantity Surveyors, Leet Court, King-street, Watford, Herts.

ASSISTANT TAKER-OFF (Final standard) Required in Croydon office of Chartered Quantity Surveyors.—Apply WHITTALL & BENTLEY, 8 High-street, Croydon, or 'phone 4097.

SENIOR AND JUNIOR TAKERS-OFF Required in Luton and Witney Offices of Quantity Surveyors.—Reply giving brief particulars of experience and salary required to S. J. SMITH AND PARTNERS, Quantity Surveyors, Alma House, Alma-street, Luton, Beds.

SENIOR AND JUNIOR TAKERS-OFF and WORKERS-UP Required by firm of Quantity Surveyors situated on main 'bus route between Uxbridge and Slough. 5-day week; pleasant working conditions; non-contributory pension scheme.—Reply Box 1984, "The Builder."

LONDON FIRM of Chartered Quantity Surveyors Require TAKERS-OFF.—Write stating age, experience, and salary requ.red.—Box 1961, "The Builder."

LEEDS. EXPERIENCED TAKER-OFF Required, aged 28-40, for permanent situation. Salary £1,000 p.a. plus considerable overtime.—Box 2046, "The Builder."

TAKER-OFF Required, R.I.C.S. Final Standard, for London office. Salary £900-£1,000 per annum. Box 1985, "The Builder."

YOUNG TAKER-OFF/SITE SURVEYOR Required for London office; £700-£800 p.a. commencing salary.—Box 1986, "The Builder."

EXPERIENCED TAKER-OFF Required by London firm of Chartered Quantity Surveyors, near Victoria Station. Salary £900-£1,000; pension scheme; Luncheon Vouchers.—Write full particulars to Box 1987, "The Builder."

TAKERS-OFF and MEASURING SURVEYORS Required by London Chartered Quantity Surveyors for permanent staff. Five-day week.—Write stating age, experience and salary required to Box 929, "The Builder."

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyor's office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required, to Box 991, "The Builder."

JUNIOR TAKER-OFF urgently Required by Incorporated Quantity Surveyor in country town about 55 miles from London. Five-day week, holiday arrangements honoured, salary about £600-£700 depending on ability, etc. Surveyor at present with Contractors would be considered. All applications will be acknowledged.—Box 1757, "The Builder."

SENIOR TAKER-OFF Required by West-End Firm of Quantity Surveyors. Salary £1,200-£1,500.—Box 905, "The Builder."

TAKER-OFF Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary about £900.—Reply in handwriting stating age and experience.

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary about £1,000.—Reply stating age and experience in handwriting to Box 1851, "The Builder."

CHARTERED Quantity Surveyors, Rochester, Kent, Require TAKER-OFF, preferably A.R.I.C.S., also experienced WORKER-UP.—Reply stating age, experience and salary required to Box 2088, "The Builder."

PRESTON, LANCS. TAKER-OFF Required.—Apply A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors, 8 Storey's-gate, Westminster, S.W.1.

THE LONDON FERRO-CONCRETE CO., LTD. Require an experienced TAKER-OFF for their Projects Dept. in London dealing with reinforced concrete structures. Applicants should be senior men aged 30-35, able to organise and control junior staff. 5-day week. Pension Scheme.—Write stating age, experience and salary required to 247-9, Vauxhall Bridge-road, S.W.1.

EXPERIENCED TAKER-OFF Required by London firm of Chartered Quantity Surveyors. Salary. £1,100 to £1,200. Pension scheme. Luncheon vouchers. Holiday this year.—Box 1802, "The Builder."

JUNIOR TAKER-OFF (R.I.C.S. Intermediate Standard) Required by Chartered Civil Engineers in Westminster for their quantity surveying department. Five-day week. Pension Scheme and L.V. Salary £650 per annum.—Apply stating age and experience to J. D. & D. M. WATSON, 67, Tufton-street, Westminster, S.W.1.

SENIOR TAKER-OFF Required for permanent position in London professional office. Commencing £1,200 per annum basic salary. Variety of work on Bills and Final Accounts.—Box 1804, "The Builder."

EXPERIENCED TAKER-OFF, preferably chartered, Required by London firm of Chartered Quantity Surveyors. 5-day week. Please reply stating age, experience and salary required.—Box 1807, "The Builder."

EXPERIENCED TAKER-OFF Required by West End Chartered Quantity Surveyors for interesting work including work on overseas schemes and able to handle small jobs without supervision. Salary according to qualifications, experience, etc.—Apply to C. T. R. KELLY & Partners, 8 Manchester-square, W.1.

APPLICATIONS are invited for the following posts:—TAKER-OFF: Membership of R.I.C.S. desirable but not essential. ASSISTANT TAKER-OFF: Capable of working with a minimum of supervision. SENIOR WORKER-UP: A fully experienced man capable of taking charge of working-up section. ASSISTANT WORKER-UP: Familiar with simple abstracting and trade terminology. The posts are pensionable and a five-day week is in operation.—Reply stating age, training, experience and salary required, to G. S. HAY, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY Ltd., 1 Balloon-street, Manchester, 4.

TAKERS-OFF, recently qualified, Required by STANLEY GRIFFITH & PARTNERS, Greycoat Chambers, 29 Greycoat-street, Westminster, S.W.1.—Please reply stating age, experience and salary required.

TAKERS-OFF Required by C. William O'L Markham and Partners.—Apply in writing to Grosvenor Gardens House, S.W.1, stating age, experience and salary required.

JUNIOR TAKER-OFF with site measuring experience Required for Chartered Quantity Surveyors, Blackburn.—Box 2119, "The Builder."

JUNIOR AND SENIOR TAKERS-OFF Required. —Write stating age, experience and salary required to THURGOOD, SON & CHIDGEY, Chartered Quantity Surveyors, 2 Broad Street Buildings, Liverpool-street, E.C.2.

TAKERS-OFF and WORKERS-UP Required by West End Quantity Surveyors. 5-day week, pension, etc. Details of salary, experience, etc., in writing to: A. E. THORNTON-FIRKIN & PARTNERS, 17 Fitzhardinge-street, Portman-square, W.1.

EXPERIENCED PERMANENT WORKER-UP Required by Chartered Quantity Surveyors close Victoria Station. Salary £850 per annum or according to experience. Pension Scheme: Luncheon Vouchers; 5-day week.—Write giving full particulars to Box 1988, "The Builder."

WORKERS-UP, Senior and Junior, Required.—Apply in writing giving full particulars to V. B. JOHNSON & PARTNERS, Chartered Quantity Surveyors, Leet Court, King-street, Watford, Herts.

WORKER-UP Required for London Office and Kingston-on-Thames Office. Permanency; Pension Scheme and Luncheon Vouchers.—Write stating experience and salary required to ERIC G. LYNDE & PARTNERS, 41 Russell-square, London, W.C.1.

LEEDS. EXPERIENCED WORKER-UP, aged 23-30, Required for permanent situation. Commencing salary £800 p.a. plus considerable overtime.—Box 2048, "The Builder."

CITY FIRM Require competent full-time WORKER-UP. Salary £700-£800 according to experience.—Box 1989, "The Builder."

JUNIOR WORKER-UP Required by City firm of Chartered Quantity Surveyors. Two or three years' experience.—Write stating age, experience and salary expected to Box 2049, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyor with small West End practice.—Write stating age, experience and salary required.—Box 2055, "The Builder."

WORKER-UP, age 26-40, Required in London Chartered Surveyor's Office. Excellent prospects; 5-day week. Salary up to £1,000, according to ability and experience.—Box 2081, "The Builder."

JUNIOR WORKER-UP, minimum of 2 years' professional office experience, Required by Quantity Surveyors (Lincoln's Inn) with medium-size varied practice. Every facility for advancement to applicant possessing initiative and ability.—Box 2068, "The Builder."

WORKER-UP, 3-4 years' minimum experience, Required by London Chartered Quantity Surveyors. Please reply stating age, experience and salary required.—Box 1808, "The Builder."

WORKER-UP with some experience Required by C.Q.S. in West Sussex. 5-day week. L.V.s.—Write stating particulars and salary required to: Box 2089, "The Builder."

REQUIRED in York, EXPERIENCED WORKER-UP; and in Doncaster TAKER-OFF. The appointments in both cases will be progressive. Please reply stating age, training, experience and salary required.—Box 1908, "The Builder."

EXPERIENCED WORKER-UP Required in London. Please reply stating age, training, experience, salary required.—Box 1909, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

WORKER-UP Required for Chartered Quantity Surveyor's Branch Office in Harlow New Town. Five-day week. Housing accommodation may possibly be arranged. State age, experience and salary required.—Box 1797, "The Builder."

EXPERIENCED WORKERS-UP Required by C. William O'L Markham and Partners.—Apply in writing to Grosvenor Gardens House, London, S.W.1. Stating age, experience and salary required.

SENIOR WORKER-UP for London Chartered Quantity Surveyor's office.—Please reply, stating age and details of experience, to Box 1941, "The Builder."

GERALD C. SPEIDEL & PARTNERS Require JUNIOR WORKER-UP.—Please write stating age, experience and salary required to 16 Clifford-street, London, W.1.

SWINDON, WILTSHIRE: EXPERIENCED WORKER-UP Required for branch office of London Quantity Surveyors. Permanent position. Five-day week, overtime extra.—Reply stating age, experience and salary required to Box 2136, "The Builder."

WORKER-UP Required in South Wales for a large site contract by a firm of Chartered Quantity Surveyors.—Write stating age, experience, and salary required to Box 2168, "The Builder."

WORKER-UP who is prepared to make working-up his career Required for a permanent appointment in London office of West End firm of Chartered Quantity Surveyors. Good salary paid to suitable applicant. L.Vs., 5-day week and Pension scheme.—Write stating age, experience, etc., to Box 2171, "The Builder."

BUILDING AND CIVIL ENGINEERING CONTRACTORS Require SITE ENGINEER in Reading area. Applicants should be good instrument men, with main duties consisting of advising on most economical and aesthetic methods of setting out dwellings and ancillary works on housing sites. Applicants should reply in writing stating age, experience and salary required to Box 1890, "The Builder."

SETTING-OUT ENGINEER Required by piling Contractors. Need not necessarily be professionally qualified, but must be meticulously reliable and experienced. Can be based at home address, but will have to travel frequently throughout the United Kingdom.—Write Box 1903, "The Builder."

ENGINEER Required for recently formed progressive Company carrying out varied and interesting work on precast and in situ frames and other R.C. structures. Some site experience preferred.—Apply in writing to the SITE PRECAST CONCRETE Ltd., 247 Monument-road, Edgbaston, Birmingham 16.

CIVIL ENGINEERS

Wilson Lovatt & Sons Ltd., Clarence-street, Wolverhampton, invite applications from young Engineers for vacancies on new Building and Civil Engineering Contracts starting shortly. Applicants will be expected to have had at least 5-10 years' experience with well-known National Contractors and possess drive and initiative with a view to advancement. Applications will be treated in strict confidence and should be addressed to the Personnel Manager.

CLERK OF WORKS Wanted, September, 1959, for new office block, Watford.—ERNO GOLDFINGER, Architect, 69-70 Piccadilly, W.1. Tel.: HYDe Park 5210/5657.

SENIOR CLERK OF WORKS Required for large Laboratory project in the West of England.—Please send copy references and details of employment, together with salary required, to HARRY S. FAIRHURST & SON, 55 Brown-street, Manchester 2.

CLERK OF WORKS Required immediately for industrial projects at Rochdale, Lancs.—Please send details of previous employment, salary required and copy references to HARRY S. FAIRHURST & SON, Chartered Architects, 55 Brown-street, Manchester, 2.

CLERK OF WORKS Required for contract at Stratford-on-Avon, commencing early September. Possible permanent position to suitable applicant.—Write with full details to J. H. Bath, Chief Architect, GEO. ADLAM & SONS, Ltd., Fishponds, Bristol.

Estimator

with experience of general building contracts to £200,000 required to assist chief estimator. The position is progressive and after probationary period the successful applicant will be eligible for contributory pension scheme. Write full details of experience and salary required to **Walker (Tooting) Ltd., Hackbridge Road, Hackbridge, Wallington, Surrey.**

ESTIMATOR, thoroughly experienced in small works organisation up to £30,000.—Write stating qualifications, previous experience, age, salary asked, to HOLLIDAY AND GREENWOOD Ltd., 31 Buckingham Palace Gardens, London, S.W.1.

PLASTERING SPECIALISTS have a vacancy for ASSISTANT ESTIMATOR and MEASURING SURVEYOR, resident in London. Contributory Pension Scheme operating.—Apply stating age, experience and salary required to PLASTERING LIMITED, Concanon-road, Acre-lane, Brixton, London, S.W.2.

ESTIMATOR / SURVEYOR Required by R. MANSELL, Ltd., 50 Rochester-row, Westminster.

JOINERY ESTIMATOR / ASSISTANT WORKS MANAGER Required, Manchester Area. Singular opportunity for man, aged 25-38, interested in both fields to obtain permanent and progressive position with medium-sized manufacturer of High Class Specialised woodwork. No mass production. Pension Scheme.—Write giving full details of age, experience, and salary required to Box 2050, "The Builder."

SENIOR ESTIMATOR Required by old-established East London Building Contractor engaged on all classes of work. Permanent situation to right man.—Write stating age, experience and salary required, to Box 1990, "The Builder."

ESTIMATOR/SUPERVISOR, fully experienced, Required by S.E. London Painting Contractors to price contracts and supervise good class painting work to Hospitals, Multi-Stores and Office Buildings. Only person prepared, at times, to travel long distances, with driving experience and a first-class record need apply, stating age, experience and to whom references may be obtained to Box 1991, "The Builder."

ESTIMATOR/SURVEYOR Required by Ealing Firm of Builders and Contractors.—Write stating age, experience and salary required to Box 2056, "The Builder."

SENIOR ESTIMATOR

age 28/45 required for West End Offices of National Contractors. Considerable experience of all types tendering needed and accustomed to preparing price analysis and build-up. Good Salary and first class opportunities for progress for right man. Assistance with housing will be given if necessary. Pension Scheme.

Reply Box No. 1998

OLD-ESTABLISHED CITY CONTRACTOR Requires additional ESTIMATOR AND SURVEYOR to permanent staff; Pension Scheme. I.O.B. members preferred.—Box 1992, "The Builder."

JUNIOR ESTIMATOR Required, good prospects of quick promotion. Aldgate firm.—Box 1994, "The Builder."

ESTIMATOR/SURVEYOR (aged 30-40 years) Required by well-known East London Contractor; must have had good experience in taking-off and pricing Bills of Quantities for medium-size contracts, and dealing with Valuations and Final Accounts. Bonus scheme in operation.—Write giving full details of past experience and salary required to Box 1995, "The Builder."

WANTED: JUNIOR ESTIMATOR for Beckenham Builder. State experience and salary required.—Box 1996, "The Builder."

ESTIMATING Office of London Builders Require ASSISTANT, age about 18-20, with previous experience, accurate at figures, excellent prospect for advancement, alternate Saturdays free.—Apply stating age, experience and salary required, to Box 1997, "The Builder."

SHOPFITTING ESTIMATOR Required by leading and progressive Company situated London. Experience essential. Send full details, in confidence, to Box 2000, "The Builder." (Present staff advised.)

ESTIMATOR REQUIRED

for London Contractors—age 28/33. At least five years experience estimating all types contract. Knowledge of price analysis essential. Expanding Company, quick progress probable for right man. Pension Scheme.

Reply Box No. 1999, "The Builder"

PART-TIME BUILDERS' ESTIMATOR Required. Must be conversant with jobs from jobbing to contracts up to £40,000. Telephone ROYal 1619.—EDWARD FEINER & CO., Ltd., 74 Commercial-road, E.1.

ESTIMATOR for small works, supervision of contracts and final accounts.—Write experience, age and salary to W. LOWETH & SONS, Ltd., 17/19 Lansdowne-way, S.W.8.

ESTIMATOR Required for large-scale contractors due to further expansion programme. Experienced in all types of contracts. Duties to commence from 1st November, 1959.—Reply, giving particulars of experience, age, salary required, to TOKEN CONSTRUCTION Co. Ltd., 68 Mount-street, W.1.

ESTIMATOR/SURVEYOR for small Contracts department of medium-sized firm of S.E. London Building Contractors, experienced in competitive estimating for work up to approximately £15,000 in value, and control of variations, certificates and preparation of final accounts. Successful candidate will be provided with a car, and invited to join the firm's superannuation scheme after probationary period. Only keen energetic man determined to work hard to make a position for himself should apply. This is an expanding firm with opportunities for advancement. Age 30-40 preferred.—Apply in writing to COURTENAY & FAIRBAIRN Ltd., 377 Albany-road, Camberwell, S.E.5.

SENIOR ESTIMATOR AND SURVEYOR Required for medium-sized old-established Building Contractor's Office in S.W. Surrey. Must be capable of taking-off and billing, estimating from bills of quantities, supervising contracts from enquiry to final account.—Apply stating age, experience and salary required to Box 2076, "The Builder."

COURTNEY, POPE LTD.
require

EXPERIENCED SHOPFITTING ESTIMATOR

Applications are invited for the position of Estimator. Please write with full details, which will be treated in strictest confidence, quoting Ref. E/B.

ESTIMATOR Required for Works Engineer's Department of large Coventry engineering company, in connection with all types of industrial building work. Some knowledge of estimating for plant and service installations would be an advantage.—Write, stating experience, age and salary expected to Ref. ES2, Box 1811, "The Builder."

ESTIMATOR/SUPERVISOR Required for expanding firm of Decorators, S.W.1. Must be used to high-class Decorating and competitive Painting works, and able to take charge from enquiry to final account. Bonus. Superannuation schemes in operation.—Please reply, giving full details and stating salary required, to Box 1904, "The Builder."

EXPERIENCED ESTIMATOR for Structural and Building work Required by well-known firm of Building and Civil Engineering Contractors in the Midlands. Permanency and good prospects for the right man.—Write in confidence giving details of age, experience qualifications and salary required to Box 1812, "The Builder."

ESTIMATOR Required for London office of Major Petroleum Distribution Company engaged on the construction of storage installations involving civil engineering, building work, and pipelines. Applicants should have had experience of work on projects of this type. Starting salary commensurate with qualifications and experience. Excellent Pension Scheme.—Apply giving full details of age, qualifications and experience to Box 1891, "The Builder."

SHOPFITTING ESTIMATORS

Large progressive firm Requires SENIOR and JUNIOR ESTIMATORS. Excellent opportunities for promotion.—Apply giving full details of experience and salary required to Box 1815, "The Builder."

ONE SENIOR ESTIMATOR

(Age 30/35)

For building contracts up to £100,000 in value. Only ambitious applicants anxious to progress further in their career are invited to reply. Offices in Central London. Bonus on results and non-contributory pension scheme. Reply stating age, experience and salary range contemplated to

Box No. 2138 "The Builder."

ESTIMATOR/SURVEYOR Required by Builders and Contractors near Reading to work in conjunction with Chief Estimator. Young man approximately 30 years of age preferred. Progressive post for keen and energetic man. Applicants must have knowledge of taking-off, estimating, site measuring and preparation of accounts. Apply giving details of experience, age, references and salary required.—Box 1817, "The Builder."

YOUNG MAN for the Estimating Department of Holborn Builders. Must have some experience.—Write with full details and salary required to Box 1818, "The Builder."

ESTIMATOR, aged 25-35, Required. Maisonette would be available in six months if satisfactory. Please state experience and salary required.—H. N. EDWARDS & PARTNERS Ltd., Basingstoke.

ESTIMATOR Required by Building & Civil Engineering Contractors with a busy office in the Westminster area.—Full particulars, please, to Box 1960, "The Builder."

CHIEF ESTIMATOR

The London Ferro-Concrete Co. Ltd. are seeking a Chief Estimator to assist them in building up and administering a new Department in their Office and Works at Hemel Hempstead.

Applications are invited from qualified estimators, aged 30/40 yrs., who have had site experience as Agent or similar, and who have had at least five years experience on estimating structural and civil engineering works, mainly pre-cast and *in situ* R.C.

The post is pensionable, and a first-class salary will be paid to the right person. Housing is available if required.

Details to: The Managing Director, The London Ferro-Concrete Co. Ltd., Maxted Road, Hemel Hempstead, Herts.

ESTIMATOR with experience of the building trade work. Required by an expanding and progressive company in the Precast Concrete trade. This post is permanent and pensionable. The preferred age of applicants would be up to 30.—Apply in writing to: The General Manager, TRENT CONCRETE Ltd., Colwick, Nottingham.

SENIOR ESTIMATOR Required by Ford & Walton Ltd. who will in 1960 be moving office to Wembley, experienced in tendering for office blocks, industrial building, flats, etc.—Apply in own handwriting stating age, experience and salary required, to Chief Estimator, FORD & WALTON Ltd., Walton House, Warton-road, E.15.

BUILDER'S ESTIMATOR Required for country business. North Hants.—Apply to W. G. BOYCE, High-street, Odiham, Hants.

ESTIMATOR/SURVEYOR Required for Southampton Branch Office, previous estimating experience in Contracting essential; progressive post for keen man. Pension Scheme available.—Write stating age, experience and salary to Chief Surveyor, E. H. BURGESS LIMITED, 34 Grosvenor-gardens, London, S.W.1.

ESTIMATOR Required by progressive, medium-size Building Contractors. Must be experienced and capable of tendering on Bills of Quantities, taking-off and pricing drawings and specifications and preparing final accounts. The position is permanent and applications are invited in writing stating experience, qualifications, age and salary to S. SHARPLES (DARWEN) Ltd., Britannia Saw Mills, Darwen, Lancs.

ESTIMATOR AND SURVEYOR for Channel Island Builders (70 operatives). Permanency. Accommodation available.—Apply Box 2137, "The Builder."

SENIOR ESTIMATOR

required by large firm of Building and Civil Engineering Contractors. Must be capable of tendering for Industrial Projects, Reinforced Concrete Framed Structures, Schools and Local Authorities' Developments, etc., and have a sound knowledge of detailed price build-up of labour and materials. Existing holiday arrangements honoured. Successful applicant will, after a suitable trial period, be invited to join the Company's Staff Pension Scheme. Apply stating age, previous experience and salary required to Chief Estimator,

TERSONS, Ltd., Dollis-park, Finchley, N.3.

A. J. WAIT & Co. Ltd., Require ESTIMATOR, used to all types of Building Construction and knowledge of R.C. work is essential; good salary.—Apply in writing to Contracts Manager, Wellington-crescent, New Malden, Surrey.

ESTIMATOR

For Small Works Department of London West End Builder. Contracts up to £8,000. Age about 25/35. Able to take off own quantities. Excellent prospects for the right man. Non-contributory Pension Scheme. State experience and salary range contemplated to

Box No. 2108 "The Builder."

LEEDS. OFFICE MANAGER Required, aged 30-50, with at least 12 years' experience in quantity surveying offices, including experience of controlling staff. A.R.I.C.S. preferred. Commencing salary £1,400 p.a. plus bonus and considerable overtime.—Box 2047, "The Builder."

ASSISTANT MANAGER Required by Builders' Merchants, experienced in light and heavy sides, sound knowledge estimating and buying. Permanent position, good salary, staff pension scheme.—Apply in writing giving full details of previous experience and salary required to Mr. R. C. Patience, WIGGINS-SANKEY, Ltd., 13/15 Crown-street, Reading.

GENERAL MANAGER

required by Building & Civil Engineering Contractors from the North of England shortly transferring to and opening in London.

Must be widely experienced in the industry including housing and have sound technical and organising ability to ensure proper supervision and construction on building sites. Pension scheme in operation.

Please write for interview in London giving details of experience, age, salary required and when available to **BOX 1944.**

"The Builder"

ASSISTANT to Site Works Manager Required in Medway towns area. Experienced in quantity surveying, final accounts, office administration, etc. Knowledge of prefabricated timber buildings desirable.—Apply stating age, experience and salary required to Box 2001, "The Builder."

ASSISTANT SALES MANAGER Required by well-known firm of wallboard manufacturers. Position as envisaged will involve dealing with day to day enquiries, improving present sales office routine, and the preparation and carrying through of sales promotion schemes by direct mail on a national and local basis. This is an inside job and applicants should be resident—or prepared to reside—within reasonable travelling distance of West Middlesex. Salary not finally determined, but will be based on a combination of experience, age and ability. Our own staff knows of this advertisement. Only applicants who give fullest details of career to date, including present position and salary earned, will be considered.—Write: Sales Director, Box 2002, "The Builder."

National Contractors

require

SENIOR EXECUTIVE

to be responsible to Manager for technical administration of Building department. He will be responsible generally for planning and progressing, for liaison between service departments and the Contract supervisors, and seeing that the latter are supplied with all information to enable them to execute the contracts efficiently and expeditiously. Applicants should be fully experienced in all aspects of Building, including House building, and preferably be surveyor trained. Initial remuneration £1,250–£1,500 per annum depending on ability. Pension scheme operated and assistance with house given, if necessary. Write stating age, experience, etc., to

Box No 2109 "The Builder."

MANAGER Required to take control and build up department of firm dealing in the Hire and Sales of Builders' Equipment. This is a first-class opportunity for man with initiative and drive, for which a good commensurate salary will be paid. Non-contributory pension scheme. Company car will be supplied to successful applicant.—Apply giving full particulars to Box 2075, "The Builder."

ASSISTANT MANAGER for N.W. London Estate Developer, with knowledge of buying and surveying.—W. REED & CO., Ltd. Finchley 6271.

SUPERVISOR/MANAGER for Jobbing and Small Works Department. Required by well-known Building Contractors in West End. Aged 30-45. Must be experienced in organising small contracts up to £20,000. Knowledge estimating desirable. Progressive salary. Pension Scheme and other attractive conditions. State age, experience, qualifications, date available.—Box 2195, "The Builder."

GENERAL MANAGER. Well-known London and National Building Contractors wish to interview applicants for appointment to their Overseas Companies respectively in Australia, Carribean and West Africa. Age 35-45. Previous experience as senior executive in the Building/Civil Engineering industry essential. Chartered Civil Engineer or Surveyor with management capacity, able negotiator at highest level and preferably with overseas contracting experience is offered progressive salary with attractive conditions. Applicants should give full particulars age, training, qualifications, experience, family and present salary level with indication territorial preference.—Box 2196, "The Builder."

PRECAST CONCRETE SPECIALISTS Require ASSISTANT WORKS MANAGER for their Standard Products Department, which produces hydraulically pressed kerb and paving, and spun concrete poles. Progressive position, pleasant staff house available, superannuation scheme.—Apply with full details of experience, present salary and copy references to Managing Director, THE CROFT GRANITE, BRICK & CONCRETE Co., Ltd., Croft, Leics.

BUILDING CONTRACTORS Require WORKS MANAGER to take complete charge of joinery department in Ipswich, including preparation of estimates; the position offers an excellent opportunity for an experienced and progressive man and only such applicants will be considered. Knowledge of general mechanical plant also desirable.—Full details of experience and present salary should be given in written applications to GEORGE A. KENNEY & SONS Ltd., Army Works, Burtell-road, Ipswich.

BUILDING AND CIVIL ENGINEERING

Contract Management

F. Shepherd & Son Ltd., Building & Civil Engineering Contractors, invite applications from men up to 35 years of age with ability, drive and a good technical and managerial background in construction, who wish to take senior positions in Contract Management.

The Company is prepared and expects to give training in modern management techniques to accelerate the development of men of the right experience and calibre to take senior positions within the organisation. There are at least two positions available which provide an attractive opportunity to join an established, well-organised, progressive and growing company regularly employing over 2,000 people and carrying out more building work in Yorkshire than any other contractor.

These positions, which are permanent and do not involve lodging away, offer good prospects, substantial and progressive salary, bonus and non-contributory pension scheme. A car is provided and assistance with housing if required.

Written applications, which will be dealt with in strict confidence, should state age, full details of career to date, availability and some indication of present salary and should be addressed for the personal attention of

P. M. Shepherd, F.I.O.B.,
Managing Director,
F. SHEPHERD & SON LTD.,
Building & Civil Engineering Contractors,
Blue Bridge Lane, YORK.

CONTRACTS MANAGER Required, Surrey/Hampshire areas, housing schemes.—Write full details.—Box 902, "The Builder."

CONTRACTS MANAGER

required to work from Head Office. Applicants must be fully experienced in modern building techniques, prepared to work as a member of a planning team and able to carry out building contracts up to £1M.

This is a permanent, pensionable appointment with excellent opportunities. A car will be provided and assistance with housing will be given if required.

Applications, stating age and salary required and giving details of experience and qualifications, should be addressed to *Contracts General Manager*

Wm. Eaves & Co. Ltd.,
Vicarage Lane,
Blackpool.

CONTRACTS MANAGER Required to control several small conversion jobs S. London area. Knowledge of building construction and experience of measuring variations and sub-contractors essential. Full details of age, experience and salary required to Box 2116, "The Builder."

ASSISTANT Required to Manager of West Middlesex Building and Decorating Company, able to estimate for small works and decorating, and organise and run contracts. Car driver preferred. Only those with experience need apply.—Box 2141, "The Builder."

MANAGER Required by Company operating in the South Midlands and North London area for Contract Section. Must be able to work on own initiative, be conversant with cost control and pre-planning methods. This is a senior appointment, only men with the necessary qualifications will be considered. A substantial salary will be paid and a car provided.—Write giving full details of age, experience, and when available, to Box 2140, "The Builder."

Applications are invited for the following appointments with a North Midlands Company. Salary up to £1,250 according to experience. Non-contributory pension scheme after satisfactory probationary period.

BUYER

Applicants must have a sound basic knowledge of Building Construction, together with five years of responsibility for buying materials and negotiating sub-contracts for major building contracts.

ESTIMATOR

Applicants must have at least five years' experience in preparing detailed estimates for all types of Building and light Civil Engineering contracts up to £1m.

SENIOR SURVEYOR

Applications required from Surveyors experienced in the modern techniques of Building Management with a minimum five years' site experience on contracts up to £500,000. Applicants must be prepared to work initially on site. Applications to

Box No. 2110 "The Builder."

SUBSIDIARY of Public Company Requires live agents for the sale of Steel Wood Screws with existing connections with the furniture trades, builders merchants and other substantial users to whom major price savings can be offered. Large stocks held. All areas available.—Apply Box 2003, "The Builder."

JOINERY SALESMAN, Birmingham area, with connection and desirous of earning high income. Required by leading firm in the North whose production has recently doubled.—Box 2004, "The Builder."

TECHNICAL REPRESENTATIVES with knowledge of the Building Industry Required in London, Southern and Home Counties Specifile Information Service. Salary with commission £1,100-£1,500 per annum. A knowledge of Building problems and costs would be useful as would a good speciality selling record.—Apply giving details of experience and background to: SPECIFILE Ltd., 131 High-street, Croydon, Surrey.

AN OPPORTUNITY EXISTS for first-class REPRESENTATIVE with progressive London Flooring concern. Only one with first-class references and experience considered. Pension scheme; car. Good salary and commission.—Write Box 2090, "The Builder."

BUYER Required for Building and Civil Engineering Contractors with Offices in the London Area.—Apply with full details of previous experience, salary expected and when availabe to Box 1823, "The Builder."

JAMES LATHAM LIMITED Require a REPRESENTATIVE to sell Hardwood and Plywood in the West Midlands. Car provided. Commencing salary according to experience. Good prospects. Applicants should be between 25 and 40 years, preferably resident in Warwickshire or Staffordshire, intelligent and of good appearance, and must have had a thorough practical training in the timber or joinery trade.—Applications in writing to the Deputy Chairman, JAMES LATHAM Ltd., London, E.5.

BUYER. Midlands Building and Civil Engineering Contractor has vacancy for CHIEF BUYER to take charge of Purchasing and Stores Department. Applicants must have had 10 years' experience in a senior position. Non-contributory pension scheme.—Applications including salary required to General Manager, D. B. EVANS (BILSTON) Ltd., Oxford-street, Bilston.

ASSISTANT BUYER, must be experienced.—Reply in confidence, giving full details of experience, age and salary required, to Secretary, C. MISKIN & SONS Ltd., Romeland, St. Albans, Herts.

WANTED: REPRESENTATIVE for correspondence abroad; high earnings. Instructions in writing.—Write: FORTUNA PUBLISHING CO., Vienna 1/8, Postfach 49.

ASSISTANT BUYER, capable of taking details of materials from drawings for ordering purposes. Required by expanding Building Contractors.—Please write giving details of education, training and experience, and stating salary required, to HOLTBY & DUDMAN Ltd., Rector's-way, Weston-super-Mare.

BUYER Required by medium-sized S.E. London Contractors. Young, energetic and experienced in purchasing all trades.—State age, experience and salary required to Box 916, "The Builder."

REPRESENTATIVE Required for prominent Architectural Metalworkers and Curtain Wall manufacturers. Applications invited from men of the age 24 to 30 years, with experience in architects' office, or knowledge of this particular field.—Write giving details of salary required and qualifications, to Box 2172, "The Builder."

Taylor Woodrow Construction Ltd.
require

WAGES CLERKS TIMEKEEPERS and CHECKERS

Must be mobile and have experience of building and civil engineering site work. Good salary. Pensionable posts with scope for advancement.

Write giving details of age, experience etc., which will be treated in strictest confidence to

Personnel Manager,
Ruislip Road, Southall,
Middlesex.

WAGES CLERK Required, used to builders' office routine.—Apply full particulars J. B. ABBOTT (PLASTERERS) Ltd., Winchester Yard, Northwood-road, Highgate, N.6.

BOOK-KEEPER Required by National firm of building and civil engineering contractors S.W.1 district. Good prospects for right applicant who should apply in own handwriting stating age, experience, salary required, and when free, to Box 2005, "The Builder."

URGENTLY REQUIRED: SITE CASHIERS and COST CLERKS for large building and civil engineering contractors. Good salary and conditions. Pension Scheme.—Write Box 2006, "The Builder."

CLERK Required in Costing Department, experience desirable but not essential.—Reply in own handwriting. TRUETT & STEEL Ltd., High-street, Thornton Heath, Surrey.

BUILDER'S CLERK Required. Capable preparing accounts from time sheets to invoice. Medium-size firm.—Apply in writing stating salary required and references, LUCKETT & SON, Ltd., Mineral-street, Plumstead, S.E.18.

CLERK (male 20-35 years) Required for invoice and materials department of well-known building contractors. Knowledge of material pricing essential. Pension scheme after satisfactory trial period. Details of experience, age, etc., to Office Manager, TERSONS Ltd., 4 Dollis-park, Finchley, N.3.

Taylor Woodrow Construction Limited
require an

ASSISTANT COST ACCOUNTANT

for process costing system. Pension scheme. Excellent opportunity.

Write giving full details of past experience and present employment, which will be treated in strict confidence, to

Personnel Manager,
Ruislip Road, Southall, Middlesex.

ASSISTANT Required, preferably experienced, dealing with returns, checking invoices and generally assisting in busy Builders' Buying office.—Apply stating age, previous experience and salary required, to HALSE & SONS, Ltd., 5 Chapel-hill, Woolwich, S.E.18.

CONTRACT STAFF

Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton, invite applications for the following positions for new contracts starting shortly :—

CASHIER/TIMEKEEPERS
TECHNICAL ORDER SURVEYORS
COST/BONUS SURVEYORS
CHECKER/STOREKEEPERS

Applicants should have spent at least the last 5–10 years on large contracts in a similar position with well known National Contractors.
Applications should state age and give details in chronological order of past experience addressed to the Personnel Manager.

BUILDERS' CLERK to send out enquiries to Sub-Contractors and Suppliers for estimating, and assist in Cost and Order Departments. Accommodation may be available.—Reply stating age, experience and salary required to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

YOUNG MAN for Wages and Invoice Department of Holborn Builders. Must have some experience.—Write with full details and salary required to Box 1819, "The Builder."

YOUNG MAN, aged 20-30, good at figures with some knowledge of Building clerical work to assist Senior Plastering Surveyor. Excellent opportunity for advancement.—Box 1827, "The Builder."

INVOICE CHECKER. FORD & WALTON, LTD., Require a CLERK conversant with Building Trade terms and materials to take charge of invoice checking.—Applications in writing, stating age, experience and salary required to Personnel Manager, FORD & WALTON, LTD., Walton House, Warton-road, E.15.

BUILDER'S CHIEF CLERK Required, experienced in accounts, costing, wages and P.A.Y.E.—Apply in confidence to Managing Director, LINDUM (LINCOLN) Ltd., Kempston-road, Bedford.

CONTRACTOR'S Office (Barking) require a man for OFFICE ORGANISATION AND CONTROL to follow up system for Sales Promotion. Experience and knowledge of the building trade an advantage. Full details of career, salary, age, etc., to Box 1828, "The Builder."

INVOICE AND COST CLERK Required. Good opportunity for young man with some knowledge of builders' clerical work. Good at figures.—Apply in writing stating age, experience and salary required, to WM. VERRY Ltd., 34/39 East Smithfield, London, E.1.

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1. —Experience, age and salary required to Box 914, "The Builder."

COST CLERK AND BOOK-KEEPER Required at North Acton. Male or female. 5-day week and lunches provided.—Write ALLNATT (LONDON) Ltd., 23 Park Royal-road, N.W.10.

WAGES CLERK (ASST.) Required at North Acton. 5-day week and lunches provided.—Write ALLNATT (LONDON) Ltd., 23 Park Royal-road, N.W.10.

BUILDER'S CLERK Required for prime cost department. Must be experienced and accurate with figures. Good opportunity and progressive position for keen man. Post carries good salary.—Write giving full details of experience and age to E. C. HUGHES Ltd., Albion Works, Wokingham, Berks.

BOOK-KEEPER wanted for small contractor in S.E.15 area. Permanent situation. Typing not needed. Might suit middle-aged person.—Box 2173, "The Builder."

BUILDING CONTRACTORS Require experienced GENERAL AND ORDER CLERK. Permanent and progressive position in busy office at high salary. —BELL & ASSOCIATES Ltd., 58 Kensal-road, W.10.

VACANCY for CONTRACTS ASSISTANT with firm of Specialist Spraying Contractors. Previous Civil Engineering or Building experience desirable. Age between 25 and 35.—Write Box 2015, "The Builder."

WANTED for office of Precast Concrete manufacturers TECHNICAL ASSISTANT preferably with drawing office and progressing experience. —Box 1924, "The Builder."

BUILDER'S ASSISTANT Required, East Berkshire. Must be experienced in estimating for good-class small works, supervising and dealing with contracts up to £5,000 to £6,000 from enquiry to final account. Able to organise jobbing work. Progressive post to the right man. Living accommodation provided.—Write giving full details of experience, age, references and salary required to Box 1830, "The Builder."

LINO, Rubber, Cork and P.V.C. Flooring. Experienced CONTRACTS ASSISTANT Required by large company to allocate labour, control and progress jobs. Reply stating experience and salary required.—Box 2142, "The Builder."

ASSISTANT Required for Contracts department flooring specialists, Wandsworth district, with experience preparing draft accounts, wages, etc.—Apply Box 2143, "The Builder," with full details experience and salary required.

SITE AGENTS

Required to control large Local Authority housing contracts, Bucks., Herts. area. Excellent prospects are offered in a well established and expanding organisation. Successful applicants will have the benefit of superannuation and a profit-sharing scheme. —For full details and application form apply in strict confidence, giving brief particulars of experience, to: J. Wright, Director, C. BRYANT & SON Ltd., 65 Whitmore-road, Birmingham, 10.

BUILDERS' AGENTS and GENERAL FOREMEN

Experienced Agents and General Foremen required.
Some acquaintance with Site Cost Control and Operational Planning an advantage; ability and readiness to widen experience and improve methods essential.
Good salary and conditions ; Pension Scheme in operation ; excellent prospects for energetic and capable men.
Apply in writing to :—

Area Manager,
E. TURNER & SONS LTD.
31, WALTER ROAD,
SWANSEA.

A. J. WAIT & Co. Ltd., Require AGENTS and GENERAL FOREMAN for sites within the London area. Applicants must possess proved ability; conversant with all types of work. Good salary plus production bonus.—Apply in writing to Contracts Manager, Wellington-crescent, New Malden, Surrey.

AGENTS, General Foremen preferably C. and J. Required by London firm of Building and Civil Engineering Contractors for Contracts up to £500,000. Must be experienced in all aspects of the trade, posses drive and initiative and up to date knowledge of mechanical plant management. Participation in Company's Bonus and Pension schemes offered to successful applicants.—Apply in writing stating experience and salary required to Box 2079, "The Builder."

CONTRACT AGENT Required by established Building Contractors on the South Coast. Applicant must be fully experienced, and have had some years with a national company. Used to modern contracting and pre-planning. Excellent prosects are offered to an energetic and experienced man who will be required to work on contracts in the Brighton area.—Apply in writing to Box 1938, "The Builder."

SITE AGENTS and GENERAL FOREMEN required for private enterprise housing developments in various parts of the country. Must be fully experienced in house building and mobils.—Box 911, "The Builder."

AGENTS

required immediately, to undertake supervision of major contracts in London and the Provinces.

Must be fully experienced in Civil Engineering Contracts, also Reinforced Concrete structures with superior finishes.

These posts command an excellent salary, together with the opportunity of earning liberal Bonus awards.

Successful applicants will, after a satisfactory trial period, be invited to join the Company's Superannuation and Free Life Assurance Scheme.
Applicants must state age, trade, and in chronological order give details of experience and previous employers to

Box No. 2158 "The Builder."

AREA AGENT Required to control Housing Contracts in the Kent coast area, based at Dover, by a national firm of contractors, with main office in London. Applicants must be fully experienced in house construction, be able to control labour and subcontractors, and operate on own initiative. This post offers scope for considerable advancement, and is both permanent and pensionable.—Write stating age, experience and salary required to Box 1831, "The Builder."

AGENT/GENERAL FOREMAN Required for large Contract in Bristol.—Apply in writing with references, JOHN KNOX (BRISTOL) Ltd., Winterstoke-road, Bristol, 3.

SENIOR SITE AGENTS Required by H. FAIRWEATHER & Co. Ltd. Must have ability to plan, organise and manage major building projects and take full responsibility for progress and site profitability. Only men of mature judgment and proven record of success need apply. Starting salary not less than £1,250 p.a. Pension and disability schemes. —Written applications in confidence giving details of age, experience, employers and salaries earned to The Personnel Manager, H. FAIRWEATHER & Co. Ltd., Hyde Works, St. James's-lane, Muswell Hill, London, N.10. Applicants selected for interview will receive acknowledgement.

AGENT/REPRESENTATIVE Required for Midlands area by Roofing Contractors. Patent Glazing and Metal Window Manufacturers, on Commission and expenses basis. Must have good connection with constructional engineers, architects, local authorities, etc.—Box 2144, "The Builder."

GENERAL FOREMEN Required for first-class Building Contracts in North London. Experienced in all aspects of the trade and a knowledge of and appreciation for modern techniques of organisation and methods.—Written applications giving full details of experience, salary required, etc., to ALLEN FAIRHEAD & SONS Ltd., Enfield.

CONTRACTS SUPERVISOR

Required by a firm of Builders in the North London area. Applicants (30-45) should have the following:

1. H.N.C. in Building Construction or the equivalent in the form of sound experience.
2. Varied experience in the control of contracts up to £200,000 per contract.
3. Knowledge of modern techniques.

The commencing salary is £1,000 per annum and a Pension Scheme is in operation.

Applications stating age, present salary and experience should be forwarded to Box DA 250 c/o WHITE'S, 72 Fleet-street, E.C.4.

GENERAL FOREMEN

required. Permanent positions for suitable men. Apply in writing giving details of experience and salary required to:
J. Jarvis & Sons Ltd., 239, Vauxhall Bridge Road, London, S.W.1.

GENERAL FOREMAN Required for housing site in Maidenhead district in first instance. Progressive permanency for suitable applicant.—Please write stating age, experience and salary required to HALF-ACRE & YOUNG, Maidenhead.

GENERAL FOREMAN Wanted for Air Ministry building contract, near Marlow, Bucks. Car owner preferred.—Details of experience, age and salary required to Box 2051, "The Builder."

OUTSIDE SUPERVISOR, practical in all trades, Required for jobbing works and alterations by E. Dulwich contractors.—Apply stating age, experience and salary required to Box 2007, "The Builder."

FOREMAN/CARPENTER. Applications are invited for the position of F/Carp. with expanding and progressive London building contractors. Applicants interested in eventual advancement to Assistant G/Foreman are required. All work in London area. —Apply in writing to Box 2008, "The Builder."

CONTRACTS SUPERVISOR Required for Contracts up to £500,000. London and Home Counties. Only applicants possessing first-class experience, drive and initiative need apply. Successful applicant will be invited to join Company's Bonus and Pension schemes. Car provided.—Apply in writing stating experience and salary required to Box 2080, "The Builder."

CONTRACT STAFF

Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton, invite applications for the following positions for new contracts starting shortly:—

GENERAL FOREMAN
SECTION FOREMAN
FOREMAN CARPENTERS
FOREMAN BRICKLAYERS
GANGERS

Applicants should have spent at least the last 5–10 years on large contracts in a similar position with well known National Contractors.
Applications should state age and give details in chronological order of past experience addressed to the Personnel Manager.

GENERAL FOREMAN for East London Building Contractors. Contract value £120,000, London, E.4 district. First-class man only considered.—Box 2077, "The Builder."

JOINERY SHOP AND MILL FOREMAN Required for modern medium-sized Joinery Works. Must be able to set out and prepare cutting lists. Only first-class men need apply, in writing, stating age, experience and wage required, to A. F. R. GODFREY & CO., Ltd., 46 Waterloo-road, Wolverhampton.

SITES SUPERVISOR Required with thorough experience of Estate Development. Used to controlling several sites and obtaining a high standard of workmanship. Salary commensurate with experience and ability. Superannuation scheme after qualifying period.—Write with full details to JAMES T. COOK & SON, Ltd., 74/76 London-street, Reading.

GENERAL FOREMAN Required for Contract starting mid-September in the Southend area.—Apply in writing to J. & J. DEAN, Ltd., Ruckholt Works, Leyton, E.10.

EXPERIENCED SUPERVISOR Required for Small Contracts Division of London firm of Building and Civil Engineering Contractors. Must possess initiative and drive and be of good appearance and capable of dealing with Architects on Industrial, Hospital and Commercial works. Position offered is permanent and pensionable. Suitable transport will be provided. Only applicants who have a sound practical background need apply.—Box 2078, "The Builder."

GENERAL FOREMAN for small private development in the Thanet area. Must be first-class tradesman and organiser, with similar experience.—Write giving full details, age, experience and salary required to Box 2111, "The Builder."

GENERAL FOREMEN

of first class experience
are required by
TROLLOPE & COLLS

for important contracts in London. Applicants must be used to full control of site organisation and be capable of producing good class work. Applications giving full particulars of experience should be made in writing to the Managing Director at,

Trocoll House, One Noble Street, London, E.C.2.

SENIOR GENERAL FOREMAN Required for Building Contracts in the North-West. Applicants should be reasonably mobile and have first-class experience of R.C. frame structures and be able to control all trades concerned in the construction of schools, office blocks, hospitals, etc.—Applications should be addressed to: CONTRACT LABOUR OFFICE, Simon-Carves Ltd., Birk Hall-lane, Stockport, Cheshire.

GENERAL FOREMAN Required to work in the Essex area.—Please apply to RICHARD COSTAIN Ltd., 2 Palmers-avenue, Grays, Essex.

TRADES FOREMAN Required for work at Basildon, Dagenham and Chelmsford.—Please apply to RICHARD COSTAIN Ltd., 2 Palmers-avenue, Grays, Essex.

EXPERIENCED GENERAL FOREMAN Required. Capable taking complete charge contract up to half million in value. Applicants must be cost and progress conscious, experienced in the use of instruments and mechanical plant.—Apply in writing giving age, experience and salary required to Contracts Manager, Y. J. LOVELL & SON Ltd., Gerrards Cross, Bucks.

GENERAL FOREMAN Required for Manchester Area by firm engaged on high-class work. Men with initiative and ability to preserve our reputation for quality work completed on time have opportunity to become permanent staff members. Pension Scheme.—Send fullest details stating salary required to POCHIN (CONTRACTORS) Ltd., Middlewich.

GENERAL FOREMEN; 3 Required; must be able to use Dumpy. Strict disciplinarian, mobile and fully conversant with all trades. Only men of proven ability need apply. Good salary. Staff bonus and non-contributory Pension Scheme.—Apply Box 2128, "The Builder."

A YOUNG TRADES FOREMAN interested in transferring to administrative side of building industry is Required for training as COST AND BONUS SURVEYOR for contracts in the Birmingham Area.—Write giving details of age, past experience, qualifications and salary required to: THOMAS LOWE AND SONS LIMITED, Curzon-street, Burton on Trent.

WANTED for Precast Concrete Works in West Middlesex area, a first-class GENERAL FOREMAN with good concrete experience. Replies which will be treated in confidence, should give full details with salary expected.—Box 1925, "The Builder."

BUILDING FOREMAN or AGENT Required by Contractors to take charge of construction of tall Block of Flats in Brighton. Previous similar experience essential.—Write giving full particulars age, experience, trade or training, salary, etc., to Box 1898, "The Builder."

GENERAL FOREMAN with first-class experience required initially for Ministry of Works Building Contract of 15 months' duration at Compton, Berks. —Full details of age, experience and salary required to TILBURY CONSTRUCTION Co., Ltd., Ruscombe Works, Twyford, Berks.

BUILDING CONTRACTORS, Birmingham, Require an OUTSIDE SUPERVISOR, one who has had wide experience in Multi-Storey Flats, concrete work, organising labour, and able to carry out work expeditiously and economically.—Give full details of previous positions held and salaries received in chronological order in strict confidence to W. H. W., Box 1832, "The Builder."

GENERAL FOREMAN for contract at Watford. —Reply stating age, trade, experience, previous employers and salary required.—C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

EXPERIENCED GENERAL FOREMEN Required, one for £30,000 contract, Municipal Flats; one for £60,000 luxury flat contract.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for a £20,000 Public House contract in Charlton.—Apply in writing, RICHARDSON, Herbet House, Slade Green, Erith, Kent.

CARPENTERS and PAINTERS Required, also a PLUMBER willing to carry out some jobbing work. Permanent employment for suitable men. Rates 5s. 4d. and 5s. 6d. according to capabilities. London, N.W.3 district.—Box 2091, "The Builder."

SENIOR FOREMAN Required for Joinery works in the West Country employing approximately 60 hands. Production covers hard and softwood joinery on a varied programme. Position requires man who is a strict disciplinarian, with full knowledge of modern workshop methods and experience of control of labour force working on an incentive bonus scheme. A good commencing salary will be paid and a staff pension scheme is in operation.—Apply, stating age and full details, including remuneration received, to Box 1840, "The Builder."

CONTRACTS SUPERVISOR Required for newly formed Building Division of Civil Engineering Contractors, Reading area. Applicants must have drive and ability and be fully experienced in the control and supervision of building contracts of every description. This post offers scope for advancement and is permanent and pensionable.—Write in confidence giving age, details of experience, previous employers and salary required to Box 2145, "The Builder."

ENERGETIC WALKING FOREMAN (C. & J.) for London Area (small works).—Write fully stating experience and salary required to Box 1820, "The Builder."

FINISHING FOREMAN Required, must be strict disciplinarian and used to handling Sub-Contract labour on good-class Private Estate Development. Only first-class men with proved ability in this field need apply. Cardiff area.—Box 2146, "The Builder."

JOINERY.—Top-grade SHOP FOREMAN urgently Required for high-class hardwood and softwood purpose made joinery and shopfitting manufacturer. Must be good organiser and keen disciplinarian. First-class opening with expanding company. Help with accommodation if required.—Reply with full details of experience, age and salary required to Joinery Works Manager, WM. MOSS & SONS Ltd., Queens-road, Loughborough, Leicestershire.

GENERAL FOREMAN Required for small contracts in London. New work and maintenance. Must be able to set out and use Dumpy.—Write Box 2174, "The Builder."

ALDGATE Contractor Requires two SENIOR GENERAL FOREMEN.—Box 2175, "The Builder."

OLD-ESTABLISHED Building Contractor requires FOREMEN with experience up to £30,000 also SENIOR FOREMAN, experience up to £150,000.—Box 2176, "The Builder."

GENERAL FOREMEN Required by progressive North Kent Building Contractor for two high class contracts in the Croydon and Crawley area. State experience, age and salary; all replies acknowledged and treated confidentially.—Box 2120, "The Builder."

SHOPFITTING SETTER-OUT Required

This is a permanent progressive post for an experienced man. Interview expenses paid, and 3 months settling-in allowance to successful applicant. Apply:

GOODWIN STOREFITTERS LTD.,
Rochford Road, Southend, Essex.
(Southend 40391).

SETTER-OUT with considerable experience of good-class Joinery for Schools, Banks, etc., is required by company in N.W. London, having wide variety of interesting work.—Apply with full details of experience to Box 2147, "The Builder."

JOINER Required on permanent staff of good-class builders. Small machine/hand shop. Must be good craftsman. Consideration would be given to applicant's possible removal cost.—FRANK R. YEATES Ltd., 50 St. John's-road, Tunbridge Wells, Kent.

AN experienced SETTER-OUT Required for trade Joinery works in S.E. London district.—Write stating experience and salary required to Box 2009, "The Builder."

CARPENTER (Working Foreman) Required for alteration contracts London area. Permanent and progressive position for suitable man.—Write in the first instance to C. GRAHAM SMITH Ltd., 4 Porchester-place, London, W.2.

BRICKLAYER/CHARGEHAND Required. Must be capable of managing labour and producing results. Top rate for right man.—Apply SLOGGETTS (CONTRACTORS) Ltd., 209 High-street, Hampton Hill, Middx.

WORKING FOREMAN Bricklayer or Carpenter/Joiner, age 30/35, wanted to take charge of building contracts including alterations in region of £10,000/£25,000 (Croydon area). Able to control men with results. This is an opportunity for person of ability to become manager as the firm expands. —Write first place giving particulars in confidence to H. LAWRENCE & SONS (CONTRACTORS) Ltd., 76 Croham-road, South Croydon.

WORKING FOREMAN (Bricklayer) for alteration job at Worcester Park, Surrey. State age, experience, wages required, to Box 2010, "The Builder."

BRICKLAYER WORKING GENERAL FOREMAN Required for small housing site at Kenton, Middlesex area. Able to handle all trades. Good position with progressive firm.—Apply stating age, experience, salary required, when available, to Box 2011, "The Builder."

BRICKLAYERS Required. Major contracts near Newquay, Cornwall. Up to two years' continuous employment available. Good terms, incentive payments, subsistence and travelling time.—Apply DUDLEY COLES, Ltd., Bath-street, Plymouth.

PAINTING SUPERVISOR

required for West End Building Contractors. Able to estimate for and organise own contracts. Reply stating age, experience and salary range contemplated to
Box No. 2139 "The Builder."

FOREMAN PAINTER Required for good class and busy Small Contracts Department. Experience with paper hanging and graining essential.—H. PARFITT & SONS Ltd., 852 Harrow-road, Wembley

PLANT FITTERS Required urgently; only 1st class men need apply. High rates of pay.—WEMbley 2786.

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 7/6; additional 6 words, 1/6, Box number, including Forwarding Replies, 1/6.

ARCHITECT'S SPECIFICATION WRITER Required for well-paid position in Australia. First-class experience essential.—Box 2052, "The Builder."

MELBOURNE, AUSTRALIA

Experienced Architectural Draughtsmen

aged 25–35 with at least 7 years experience, mostly on industrial work, required for 3-year contract. Fares paid. Commencing salary £A1,500 rising to £A1,600 and £A1,700 plus overtime. Annual bonus. Interesting work with one of the leading Australian Industrial Architects. Box 2053, "The Builder."

QUANTITY SURVEYOR Required for office in Persian Gulf. Salary and allowances up to £1,700. No local income tax at present. Accommodation provided. Free medical attention. Single man preferred.—Reply stating age and experience to Box 974, "The Builder."

CHARTERED QUANTITY SURVEYOR Required for Branch Office in West Indies. Post is one of responsibility with good opportunities for right man. Salary according to experience and capabilities.—Full details to Box 995, "The Builder."

LONDON firm of Quantity Surveyors Require QUALIFIED MAN to take charge of a busy branch office in West Africa. Applicants must be fully experienced in all aspects of Quantity Surveying work, capable of handling staff and taking instructions from clients. First class salary to right man with free accommodation and car.—Reply stating age, experience and marital status to Box 932, "The Builder."

QUANTITY SURVEYORS with at least six years' experience Required by London firm of Quantity Surveyors for Kuwait. Minimum age 25. Bachelor accommodation. A good salary will be paid and there is generous home leave on completion of an eighteen months' tour. No income tax is payable in Kuwait. Membership of the Royal Institution of Chartered Surveyors desirable.—Box 1784, "The Builder."

BRITISH WEST INDIES. TAKER-OFF Required in Quantity Surveyor's office. London trained preferably. Single man an advantage. State experience, salary required and when available. Two/three-year contract.—Lox 1843, "The Builder."

HEAVY DUTY ELECTRICIAN Required by American Oil Co., Aden area. Must have power plant experience and preferably experience in drilling rigs and American plant. Salary £1,100 upwards, all found, but no family accommodation. One year contract initially, good leave facilities.—Apply giving names and dates of previous employment to Q.T.S., 5 Welldon Crescent, Harrow, quoting 124/5.

CLERK OF WORKS Required to supervise a building project in Jamaica. The appointment will be for a period of approximately 15 months. Applications in writing stating age, qualifications, experience, and giving the names of two referees should be addressed to NORMAN & DAWBARN, Architects and Consulting Engineers, 7 Portland-place, London, W.1. Applications to be received not later than 31st AUGUST, 1959.

WANTED, JOINERY SHOP MANAGER for West Africa, preferably also with Site Building experience.—Box 2092, "The Builder."

HARDWARE AND BUILDING MATERIALS SALESMAN Required for employment in Ghana by European Company. Some experience in quantity surveying an asset but not essential.—Write Box 248, JOHN HART AND CO., 38 Chancery-lane, W.C.2.

GENERAL FOREMEN and SECTION FOREMEN for Civil Engineering Works Required overseas by Taylor Woodrow. Candidates should have previous experience in road works, concrete placing, river works and heavy bridge foundations. Good salary, free furnished accommodation, etc.—Apply Personnel Manager, TAYLOR WOODROW, Western House, Western-avenue, London, W.5.

GENERAL FOREMAN for building works Required overseas by Taylor Woodrow. Candidates should have previous supervisory experience in erecting steel and reinforced concrete framed buildings of high quality finish. Good salary, free furnished accommodation, etc.—Apply Personnel Manager, TAYLOR WOODROW, Western House, Western-avenue, London, W.5.

MAJOR European B. & C.E. Company operating in West Africa Require 1st class GENERAL FOREMAN, C. & J. preferred. Salary commencing £1,400 plus car allowance, etc. Married accommodation provided.—Box 2093, "The Builder."

AGENT (Civil and Building), age 34, previous experience abroad, requires position. Experienced contracts up to £750,000, pre-planning and cost conscious. Will shortly complete £500,000 contract in U.K. under 15 months with a large saving. Proof of ability on request.—Box 2104, "The Builder."

AUSTRALIA (preferably Melbourne). Young unmarried Quantity Surveyor, qualified this year, with 5 years' experience, requires position as JUNIOR TAKER-OFF with professional firm.—Box 2105, "The Builder."

PERSIAN GULF - BAHRAIN

Foreman Painter

thoroughly experienced, active man required immediately for Local Firm with important painting contracts. Two years initial period. Remuneration £92 per month plus 40% overseas allowance. Bachelor accommodation with essential furnishing provided. Passage paid both ways.

Write giving age, full details of experience and health to

Box No. 2117 "The Builder."

SERVICES OFFERED

Minimum 7s. 6d. (24 words)
Each additional 6 words 1s. 6d. Box number, including Forwarding Replies, 1s. 6d.

FELLOW CHARTERED QUANTITY SURVEYOR, 25 years' experience in West Country, offers services to the profession for preparation of Bills of Quantities, Interim Valuations, Final Accounts.—Box 2016, "The Builder."

EXPERIENCED TAKER-OFF, A.R.I.C.S., offers assistance to profession on part-time basis.—Box 1946, "The Builder."

"DIVER," first-class frog or standard. Anything under water. Full experience of all kinds of C.E. work, measuring estimations, bolt fixing, blasting, burning. Nothing refused.—Box 2017, "The Builder."

ESTIMATING, Surveying, Cost Control Systems, Planning, Auditing, etc.—D. PIKE, 181 Tettenhall-road, Wolverhampton; also 40 Craven-road, W.2.

REINFORCED Concrete Design Service for Architects or Builders. Multiframed, foundation and earth retaining structures. Calculations, detailing, bending lists, quantities. Prompt service.—STRUCTURAL DESIGN COMPANY, 21 Castlecroft-lane, Wolverhampton. Telephone 61139.

QUALIFIED QUANTITY SURVEYORS with own Central London Office offer assistance to the profession.—Tel.: CHAncery 4246/7.

SUCCESSFUL PUBLIC RELATIONS AND SALES PROMOTION COMPANY with high-level connections in the Building Industry invite enquiries from Contractors, Specialist Sub-contractors or Suppliers interested in obtaining new business.—Box 998, "The Builder."

E. L. S.

"ENGINEERING LAND SURVEYS"

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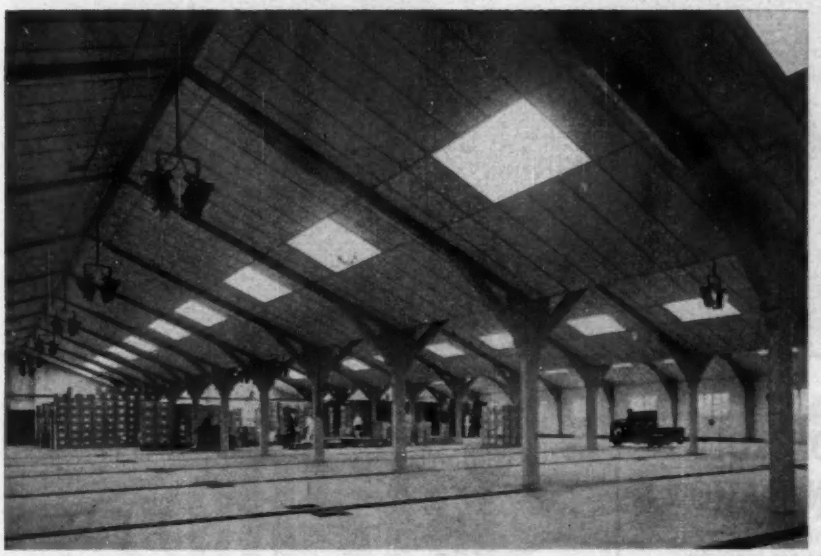

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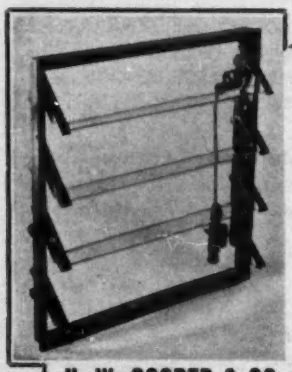

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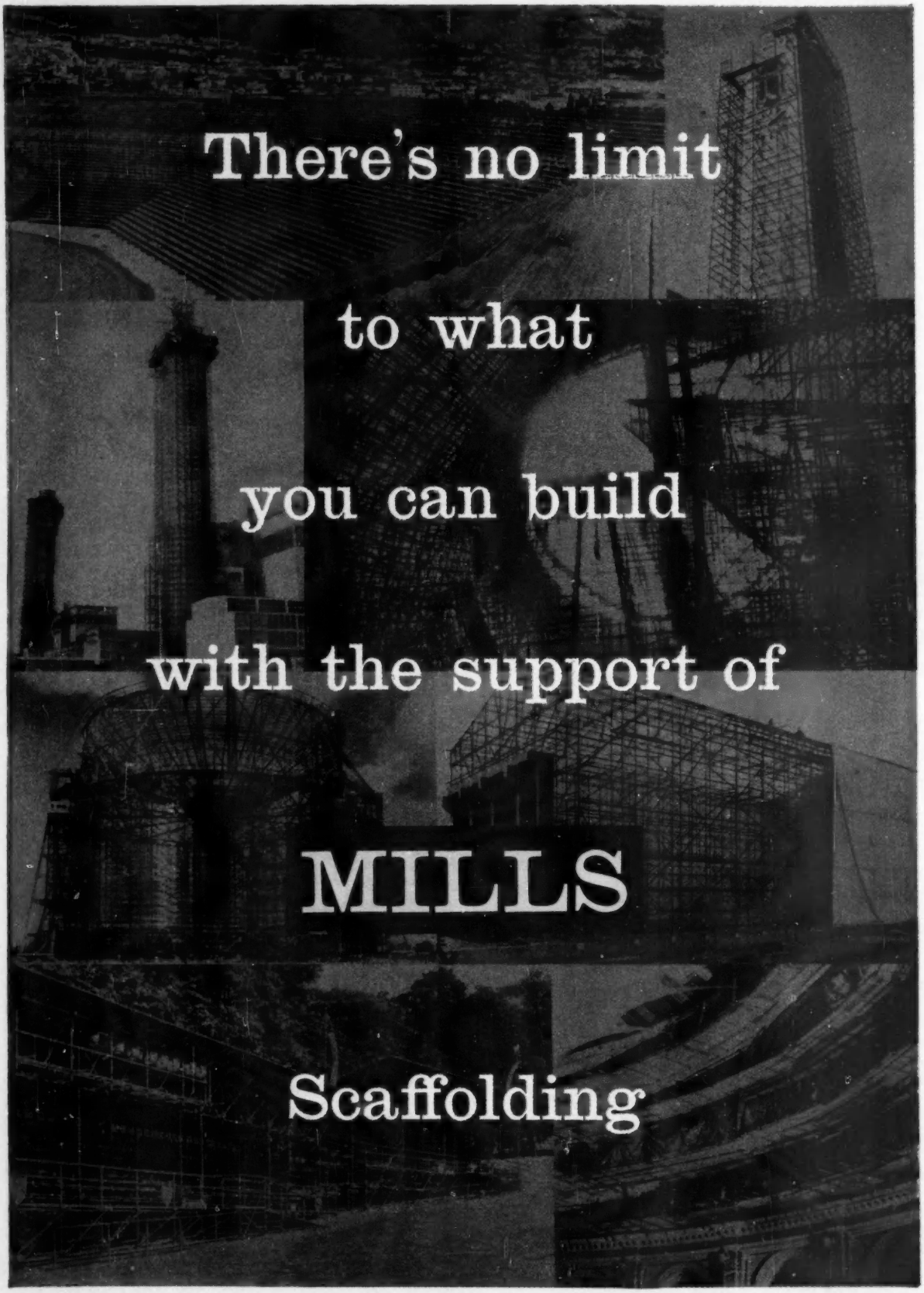

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